

FIGURE 1A

CATCATCAAT AATCTACAGT AACTGATGG CAGCGGTCCA ACTGCCAATC ATTTTTGCCA	60
CGTCATTTAT GACGCAACGA CGGCGAGCGT GGCCTGCTGA CGTAACTGTG GGGCGGAGCG	120
CGTCGCGGAG GCGGCGGCGC TGGGCGGGGC TGAGGGCGGC GGGGGCGGCG CGCGGGGCGG	180
CGCGCGGGGC GGGGCGAGGG GCGGAGTTCC GCACCCGCTA CGTCATTTTC AGACATTTTT	240
TAGCAAATTT GCGCCTTTTG CAAGCATTTT TCTCACATTT CAGGTATTTA GAGGGCGGAT	300
TTTTGGTGTT CGTACTTCCG TGTCACATAG TTTACTGTCA ATCTTCATTA CGGCTTAGAC	360
AAATTTTCGG CGTCTTTTCC GGGTTTATGT CCCCAGTCAC CTTTATGACT GTGTGAAACA	420
CACCTGCCCC TTGTTTACCC TTGGTCAGTT TTTTCGTCTC CTAGGGTGGG AACATCAAGA	480
ACAAATTTGC CGAGTAATTG TGCACCTTTT TCCGCGTTAG GACTGCGTTT CACACGTAGA	540
CAGACTTTTT CTCATTTTCT CACACTCCGT CGTCCGCTTC AGAGCTCTGC GTCTTCGCTG	600
CCACCATGAA GTACCTGGTC CTCGTTCTCA ACGACGGCAT GAGTCGAATT GAAAAAGCTC	660
TCCTGTGCAG CGATGGTGAG GTGGATTTAG AGTGTGATGA GGTACTTCCC CCTTCTCCCG	720
CGCCTGTCCC CGCTTCTGTG TCACCCGTGA GGAGTCTCC TCCTCTGTCT CCGGTGTTTC	780
CTCCGTCTCC GCCAGCCCCG CTTGTGAATC CAGAGGCGAG TTCGCTGCTG CAGCAGTATC	840
GGAGAGAGCT GTTAGAGAGG AGCCTGCTCC GAACGGCCGA AGGTCAGCAG CGTGCACTGT	900
GTCCATGTGA GCGGTTGCCG GTGGAAGAGG ATGAGTGTCT GAATGCCGTA AATTTGCTGT	960
TTCCTGATCC CTGGCTAAAT GCAGCTGAAA ATGGGGGTGA TATTTTAAAG TCTCCGGCTA	1020
TGTCTCGAGA ACCGTGGATA GATTTGTCTA GCTACGATAG CGATGTAGAA GAGGTGACTA	1080
GTCATTTTTT TCTGGATTGC CCTGAAGACC CCAGTCGGGA GTGTTCATCT TGTGGGTTTC	1140
ATCAGGCTCA AAGCGGAATT CCAGGCATTA TGTGCAGTTT GTGCTACATG CGCCAAACCT	1200
ACCATTGCAT CTATAGTAAG TACATTCTGT AAAAGAACAT CTTGGTGATT TCTAGGTATT	1260
GTTTAGGGAT TAACTGGGTG GAGTGATCTT AATCCGGCAT AACCAAATAC ATGTTTTTAC	1320
AGGTCCAGTT TCTGAAGAGG AAATGTGAGT CATGTTGACT TTGGCGCGCA AGAGGAAATG	1380
TGAGTCATGT TGACTTTGGC GCGCCCTACG GTGACTTTAA AGCAATTTGA GGATCACTTT	1440
TTTGTTAGTC GCTATAAAGT AGTCACGGAG TCTTCATGGA TCACTTAAGC GTTCTTTTGG	1500
ATTTGAAGCT GCTTCGCTCT ATCGTAGCGG GGGCTTCAAA TCGCACTGGA GTGTGGAAGA	1560
GGCGGCTGTG GCTGGGACGC CTGACTCAAC TGGTCCATGA TACCTGCGTA GAGAACGAGA	1620
GCATATTTCT CAATTCTCTG CCAGGGAATG AAGCTTTTTT AAGGTTGCTT CGGAGCGGCT	1680
ATTTTGAAGT GTTTGACGTG TTTGTGGTGC CTGAGCTGCA TCTGGACACT CCGGGTCGAG	1740
TGGTCGCCGC TCTTGCTCTG CTGGTGTTCA TCCTCAACGA TTTAGACGCT AATTCTGCTT	1800
CTTCAGGCTT TGATTAGGT TTTCTCGTGG ACCGTCTCTG CGTGCCGCTA TGGCTGAAGG	1860

FIGURE 1B

CCAGGGCGTT CAAGATCACC CAGAGCTCCA GGAGCACTTC GCAGCCTTCC TCGTCGCCCCG 1920
 ACAAGACGAC CCAGACTACC AGCCAGTAGA CGGGGACAGC CCACCCCGGG CTAGCCTGGA 1980
 GGAGGCTGAA CAGAGCAGCA CTCGTTTCGA GCACATCAGT TACCGAGACG TGGTGGATGA 2040
 CTTCAATAGA TGCCATGATG TTTTTTATGA GAGGTACAGT TTTGAGGACA TAAAGAGCTA 2100
 CGAGGCTTTG CCTGAGGACA ATTTGGAGCA GCTCATAGCT ATGCATGCTA AAATCAAGCT 2160
 GCTGCCCGGT CGGGAGTATG AGTTGACTCA ACCTTTGAAC ATAACATCTT GCGCCTATGT 2220
 GCTCGGAAAT GGGGCTACTA TTAGGGTAAC AGGGGAAGCC TCCCCGGCTA TTAGAGTGGG 2280
 GGCCATGGCC GTGGGTCCGT GTGTAACAGG AATGACTGGG GTGACTTTTG TGAATTGTAG 2340
 GTTTGAGAGA GAGTCAACAA TTAGGGGGTC CCTGATACGA GCTTCAACTC ACGTGCTGTT 2400
 TCATGGCTGT TATTTTATGG GAATTATGGG CACTTGTATT GAGGTGGGGG CGGGAGCTTA 2460
 CATTCGGGGT TGTGAGTTTG TGGGCTGTTA CCGGGGAATC TGTTCCTACTT CTAACAGAGA 2520
 TATTAAGGTG AGGCAGTGCA ACTTTGACAA ATGCTTACTG GGTATTACTT GTAAGGGGGA 2580
 CTATCGTCTT TCGGGAAATG TGTGTTCTGA GACTTTCTGC TTTGCTCATT TAGAGGGAGA 2640
 GGGTTTGGTT AAAACAACA CAGTCAAGTC CCCTAGTCGC TGGACCAGCG AGTCTGGCTT 2700
 TTCCATGATA ACTTGTGCAG ACGGCAGGGT TACGCCTTTG GGTTCCTCC ACATTGTGGG 2760
 CAACCGTTGT AGGCGTTGGC CAACCATGCA GGGGAATGTG TTTATCATGT CTAACCTGTA 2820
 TCTGGGCAAC AGAATAGGGA CTGTAGCCCT GCCCCAGTGT GCTTTCTACA AGTCCAGCAT 2880
 TTGTTTGGAG GAGAGGGCGA CAAACAAGCT GGTCTTGGCT TGTGCTTTTG AGAATAATGT 2940
 ACTGGTGTAC AAAGTGCTGA GACGGGAGAG TCCCTCAACC GTGAAAATGT GTGTTTGTGG 3000
 GACTTCTCAT TATGCAAAGC CTTTGACACT GGCAATTATT TCTTCAGATA TTCGGGCTAA 3060
 TCGATACATG TAACTGTGG ACTCAACAGA GTTCACTTCT GACGAGGATT AAAAGTGGGC 3120
 GGGGCCAAGA GGGGTATAAA TAGGTGGGGA GGTGAGGGG AGCCGTAGTT TCTGTTTTTC 3180
 CCAGACTGGG GGGGACAACA TGGCCGAGGA AGGGCGCATT TATGTGCCTT ATGTAAGTGC 3240
 CCGCCTGCCC AAGTGGTCGG GTTCGGTGCA GGATAAGACG GGCTCGAACA TGTGGGGGG 3300
 TGTGGTACTC CCTCCTAATT CACAGGCGCA CCGGACGGAG ACCGTGGGCA CTGAGGCCAC 3360
 CAGAGACAAC CTGCACGCCG AGGGAGCGCG TCGTCCTGAG GATCAGACGC CCTACATGAT 3420
 CTTGGTGGAG GACTCTCTGG GAGGTTTGAA GAGGCGAATG GACTTGCTGG AAGAATCTAA 3480
 TCAGCAGCTG CTGGCAACTC TCAACCGTCT CCGTACAGGA CTCGCTGCCT ATGTGCAGGC 3540
 TAACCTTGTG GCGGGCCAAG TTAACCCCTT TGTTTAAATA AAAATACACT CATAAGTTT 3600
 ATTATGCTGT CAATAAAATT CTTTATTTTT CCTGTGATAA TACCGTGTCC AGCGTGCTCT 3660

FIGURE 1C

GTCAATAAGG	GTCCTATGCA	TCCTGAGAAG	GGCCTCATAT	ACCATGGCAT	GAATATTAAG	3720
ATACATGGGC	ATAAGGCCCT	CAGAAGGGTT	GAGGTAGAGC	CACTGCAGAC	TTTCGTGGGG	3780
AGGTAAGGTG	TTGTAAATAA	TCCAGTCATA	CTGACTGTGC	TGGGCGTGGA	AGGAAAAGAT	3840
GTCTTTTAGA	AGAAGGGTGA	TTGGCAAAGG	GAGGCTCTTA	GTGTAGGTAT	TGATAAATCT	3900
G TTCAGTTGG	GAGGGATGCA	TTCGGGGGCT	AATAAGGTGG	AGTTTAGCCT	GAATCTTAAG	3960
GTTGGCAATG	TTGCCCCCTA	GGTCTTTGCG	AGGATTCATG	TTGTGCAGTA	CCACAAAAAC	4020
AGAGTAGCCT	GTGCATTGG	GGAATTTATC	ATGAAGCTTG	GAGGGGAAGG	CATGAAAAAA	4080
TTTTGAGATG	GCTTTATGGC	GCCCCAGGTC	TTCCATGCAT	TCGTCCATAA	TAATAGCAAT	4140
AGGCCCGGTT	TTGGCTGCCT	GGGCAAACAC	GTTCTGAGGG	TGGGCGACAT	CATAGTTGTA	4200
GTCCATGGTC	AGGTCTTCAT	AGGACATGAT	CTTAAAGGCA	GGTTTTAGGG	TGCTGCTTTG	4260
AGGAACCAGA	G TTCCTGTGG	GGCCGGGGGT	G TAGTTCCCT	TCACAGATTT	GGGTCTCCCA	4320
AGCAAGCAGT	TCTTGCGGGG	GTATCATGTC	AACTTGGGGG	ACTATAAAAA	AAACAGTTTC	4380
GGGAGGTGGT	TGAATGAGGC	CCGTAGACAT	AAGGTTTCTG	AGGAGCTGGG	ATTTTCCACA	4440
ACCGGTTGGT	CCGTAGACCA	CCCCAATAAC	GGGTTGCATG	GTAAAGTTTA	AAGATTGCA	4500
TGAACCGTCA	GGGCGCAGAT	ATGGCATGGT	GGCATTTCATG	GCATCTCTTA	TCGCCTGATT	4560
ATAGTCTGAG	AGGGCATTGA	G TAGGGTGGC	GCCCCCATA	GCCAGTAGCT	CGTCCAAGGA	4620
AGAAAAGTGT	CTAAGAGGTT	TGAGGCCTTC	AGCCATGGGC	ATGGACTCTA	AGCACTGTTG	4680
CATGAGAGCA	CATTTGTCCC	AAAGCTCAGA	GACGTGGTCT	AGTACATCTC	CATCCAGCAT	4740
AGCTCTTTGT	TTCTTGGGTT	GGGGTGGCTG	TTGCTGTAGG	GGGCGAGACG	GTGACGGTCG	4800
ATGGCCCGCA	GGGTGCGGTC	TTTCCAGGGC	CTGAGCGTCC	TCGCCAGGGT	CGTCTCGGTG	4860
ACCGTGAAGG	GCTGCTGATG	CGTCTGTCTG	CTGACCAGCG	AGCGCCTCAG	GCTGAGCCTG	4920
CTGGTGCCGA	ACTTTTCGTC	GCCTAGCTGT	TCAGTGGAAT	AATAACAAGT	CACCAGAAGG	4980
TCGTAGGAGA	GTTGTGAGGT	GGCATGGCCT	TTGCTCGAAG	TTTGCCAGAA	CTCTCGGCCG	5040
CGGCAGCTTG	GGCAGTAGAT	GTTTTTAAGG	GCATATAGTT	TGGGGGCTAA	GAAGACAGAT	5100
TCCTGGCTGT	GGGCGTCTCC	GTGGCAGCGG	GGGCACTGGG	TCTCGCATTG	CACAAGCCAA	5160
GTCAGCTGAG	GGTTGGTGGG	ATCAAAGACC	AGAGGACGGT	TATTACCTTT	CAGGCGGTGC	5220
TTGCCTCGGG	TGTCCATGAG	TTCTTTTCCC	CTTTGGGTGA	GAAACATGCT	GTCCGTGTCT	5280
CCGTAGACAA	ATTTGAGAAT	CCGGTCTTCT	AGGGGAGTGC	CTCTGTCTTC	TAAATAGAGG	5340
ATGTCTGCCC	ATTCAGAGAC	AAAGGCTCTA	GTCCACGCGA	GGACAAATGA	AGCTATGTGT	5400
GAGGGGTATC	TGTTATTAAA	TATGAGAGAG	GATTTTTTTT	GCAAAGTATG	CAGGCACAGG	5460
GCTGAGTCAT	CAGCTTCCAG	AAAGGTGATT	GGTTTGTAAG	TGTATGTCAC	GTGATGGTTC	5520

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FIGURE 1D

TGGGGGTCTC CCAGGGTATA AAAGGGGGCG TCTTCGTCTG AGGAGCTATT GCTAGTGGGT 5580
 GTGCACTGAC GGTGCTTCCG CGTGGCATCC GTTTGCTGCT TGACGGGTGA GTAGGTGATT 5640
 TTTAGCTCTG CCATGACAGA GGAGCTCAGG TTGTCAGTFT CCACGAAGGC GGTGCTTTTG 5700
 ATGTCGTAGG TGCCGTCTGA AATGCCTCTA ACATATTTGT CTTCCATTTG GTCAGAAAAG 5760
 ACAGTGA CTC TGTGTCTAG CTTAGTGGCA AAGCTGCCAT ACAGGGCATT GGACAGCAGT 5820
 TTGGCAATGC TTCTGAGAGT TTGGTTTTTC TCTTTATCCG CCCTTTCCTT GGGCGCAATG 5880
 TTAAGTTGCA CGTAGTCTCT AGCCAGACAC TCCCACTGGG GAAATACTGT GGTGCGGGGG 5940
 TCGTTGAGAA TTTGGACTCT CCAGCCGCGG TTATGAAGCG TGATGGCATC CAAACAAGTT 6000
 ACCACTTCCC CCCGTAGTGT CTCGTTGGTC CAGCAGAGGC GACCTCCTTT TCTGGAGCAG 6060
 AAGGGCGGTA TAACGTCCAA GAATGCTTCT GGGGGTGGGT CTGCATCAAT GGTGAATATC 6120
 GCGGGCAGTA GGGTGCGATC AAAATAGTCA ATGGGTCTGT GCAACTGGGT TAGGCGGTCT 6180
 TGCCAGTTT TAATTGCAAG CGCTCGATCA AAGGGTTCA AAGGTTTCC CGCTGGGAAA 6240
 GGATGGGTGA GGGCGCTGGC ATACATGCCG CAGATGTCAT ACACATAGAT GGCTTCTGTT 6300
 AGGACGCCA TGTAGGTAGG ATAGCATCGG CCGCCCCGAA TACTTTCTCT AACGTAATCA 6360
 TACATTTTCA TGGGAAGGGC TAGTAGAAAG TTGCCCAGAG AGCTCCTGTT GGGACGCTGG 6420
 GATCGGTAGA CTACCTGTCT GAAGATGGCA TGGGAATTGG AGCTGATGGT GGGCCTTTGG 6480
 AGGACATTGA AATTGCAGTG GGGCAGCCCC ACTGACGTGT GAACAAAGTC CAAATAAGAT 6540
 GCTTGGAGTT TTTTAACCAA TTCGGCCGTA ACCAGCACGT CCATAGCACA GTAGTCCAAG 6600
 GTGCGTTGCA CAATATCATA GGCACCTGAA TTCTCTTGCA GCCAGAGACT CTTATTGAGA 6660
 AGGTACTCCT CGTCGCTGGA CCAGTAGTCC CTCTGAGGAA AAGAATCTGC GTCGGTTCGG 6720
 TAGGTACCTA ACATGTAAAA TTCATTTACA GCTTTGTAAG GGCAGCAGCC TTTTTCACG 6780
 GGTAAAGCGT AAGCGGCAGC TGCCTTCCTG AGACTCGTGT GCGTGAGAGC AAAGGTATCT 6840
 CGGACCATGA ACTTCACAAA CTGAAATTTA TAGTCTGCTG AGGTGGGAGT GCCTTCCTCC 6900
 CAGTCTTTGA AGTCTTTTCG AGCAGCATGT GTGGGGTTAG GCAGAGCAAA AGTTAAGTCA 6960
 TTGAAAAGAA TCTTGCCACA ACGAGGCATG AAATTTCTAC TGACTTTAAA AGCAGCTGGA 7020
 ATACCTTGTT TGTGTTAAT GACTTGTGCG GCTAGAACAA TCTCATCAAA GCCGTTTATG 7080
 TTGTGCCCTA CGACATAGAC TTCCAAGAAA GTCGGTTGCC CTTTGTAGTTC AAGCGTACAC 7140
 AGTTCCTCGA AAGGAATGTC GCTGGCATGG ACATAGCCCA GTTTGAGGCA GAGGTTTTCT 7200
 AAGCACGGAT TATCTGCCAG GAACTGGCGC CAAAGCAAAG TGCTGGCAGC TTCTTGAAGG 7260
 GCATCCCGAT ACTGTTTAAA CAAGCTGCCT ACTTTGTTTC TTTGCGGGTT GAGGTAGTAG 7320

FIGURE 1E

AAGGTATTTG	CTTGCTTTGG	CCAGCTTGAC	CACTTTTGCT	TTTATAGCTAT	GTAAACAGCC	7380
TGTTTCGCATA	GCTGCGCGTC	ACCAAACAAA	GTAAACACGA	GCATAAAAGG	CATGAGTTGC	7440
TTGCCAAAGC	TACCGTGCCA	AGTGTATGTT	TCCACATCAT	AGACGACAAA	GAGGCGCCGG	7500
GTGTCGGGGT	GAGCGGCCCCA	GGGGAAAAAC	TTTATTTCTT	CCCACCAGTC	CGAAGATTGG	7560
GTGTTTATGT	GGTGAAAGTA	AAAGTCCCGG	CGGCGAGTGC	TGCAGGTGTG	CGTCTGCTTA	7620
AAATACGAAC	CGCAGTCGGC	ACATCGCTGG	ACCTCTGCGA	TGGTGTCTAT	GAGATAGAGC	7680
TTTCTCTTGT	GAATAAGAAA	GTTGAGGGGG	AAGGGAAGGC	GCGGCCTGTC	AGCGCGGGCC	7740
GGGATGCTTG	TAATTTTCAG	CTTCCCCTTG	TATGTTTTGT	AAACGCACAT	ATTTGCGTTG	7800
CAGAACCGGA	CGAGCGTGTC	TTGGAATGAA	AGGATATTTT	CTGGTTTTAA	ATCAAATGGG	7860
CAGTGCTCCA	AGTGCAGTTC	AAAAAGGTTT	CGGAGACTGC	TGGAAACGTC	TGCGTGATAC	7920
TTGACTTCCA	GGGTGGTCCC	GTCTTCAGTC	TGACCGTGCA	GCCGTAGGGT	ACTGCGTTTG	7980
GCGACCAGGG	GCCCCCTTGG	GGCTTTCTTT	AAAGGGGACG	TCGAGGGCCG	AGGGGCGGCC	8040
TTTGCCCTTC	GGGCCTGAGG	GGCGGTAGCT	GGACCGGATC	GTTGAGTTCC	GGCATGGGTT	8100
GCAGCTGTTG	GCGCAGGTCT	GATGCGTGCT	GCACGACTCT	GCGGTTGATT	CTCTGAATCT	8160
CCGGGTGTTG	GGTGAATGCT	ACTGGCCCCG	TCACTTTGAA	CCTGAAAGAG	AGGTCGACAG	8220
AGTTAATAGA	TGCATCGTTA	AGCTCCGCCT	GTCTAATAAT	TTCTTCCACG	TCACCGCTGT	8280
GGTCTCGGTA	AGCAATGTCT	GTCATAAACC	GTTGATCTC	TTCTCGTCC	AGTTCTCCGC	8340
GACCAGCTCG	GTGGACCGTG	GCTGCCAAGT	CCGTGCTAAT	GCGTCGCATG	AGCTGGGAAA	8400
AGGCATTGGT	TCCCGGTTCA	TTCCACACTC	TGCTGTATAT	AACAGCGCCA	TCTTCGTCTC	8460
GGGCTCGCAT	GACCACCTGG	CCCAAGTTTA	GCTCCACGTG	GCGAGCAAAG	ACGGGGCTGA	8520
GGCGGAGGTG	GTGGTGCGA	TAATTGAGAG	TGGTGGCTAT	GTGCTCCACG	ATGAAGAAGT	8580
AGATGACCCA	TCTGCGGATG	GTGACTCGT	TAATGTTGCC	CTCTCGCTCC	AGCATGTTTA	8640
TGGCTTCGTA	AAAGTCCACA	GCGAAGTTAA	AAAAC TGCTC	GTTGCGGGCG	GAGACTGTCA	8700
GCTCTTCTTG	CAGGAGACGA	ATGACTTCGG	CTACGGCGGC	GCGGACTTCT	TCGGCAAAGG	8760
AGCGCGGCGG	CACGTCCTCC	TCCTCCTCTT	CTTCCCCCTC	CAGCGGGGGC	ATCTCCAGCT	8820
CTACCGGTTT	CGGGCTGGGG	GACAGGGAAG	GCGGTGCGGG	CCGAACGACC	CGTCGGCGTC	8880
GGGTGGGCAA	GGGGAGACTC	TCTATGAATC	GCTGCACCAT	CTCGCCCCGG	CGTATCCGCA	8940
TCTCCTGGGT	AACGGCACGC	CCGTGTTCTC	GGGGTCGGAG	CTCAAAGCT	CCGCCCCGCA	9000
GTTGCGTCAG	AGGCCGCGCC	GCGGGCTGGG	GCAGGCTGAG	TGCGTCAATA	ACATGCGCCA	9060
CCACTCTCTC	CGTAGAGGCG	GCTGTTTCGA	ACCGAAGAGA	CTGAGCATCC	ACGGGATCGC	9120
TGAAGCGTTG	CACAAAAGCT	TCTAACCAGT	CGCAGTCACA	AGGTAGGCTG	AGCATAGGTG	9180

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FIGURE 1F

AGGCTCGCTC	GGTGTGTTT	CTGTTTGGCG	GCGGGTGGCT	GAGGAGAAAA	TTAAAGTACG	9240
CGCACCAGCAG	GCGCCGGATG	GTTGTCAGTA	TGATGAGATC	CCTGCGACCC	GCTTGTGGA	9300
TTCTGATGCG	GTTTGCAAAG	CCCCAGGCTT	GGTCTTGGCA	TCGCCCAGGT	TCATGCACTG	9360
TTCTTGGAGG	AATCTCTCTA	CGGGCACGTT	GCGGCGCTGC	GGGGGCAGGG	TCAGCCATTT	9420
CGGTGCGTCC	AAACCCACGC	AATGGTTGGA	TGAGAGCCAA	GTCCGCTACT	ACGCGCTCTG	9480
CTAGGACGGC	TTGCTGGATC	TGCCGCAGCG	TTTCATCAA	GTTTTCCAAG	TCAATGAAGC	9540
GGTCGTAGGG	GCCCGCGTTT	ATGGTGTAGG	AGCAGTTTGC	CATGGTGGAC	CAGTCCACAA	9600
TCTGCTGATC	TACCCGCACC	GTTTCTCGGT	ACACCAGTCG	GCTATAGGCT	CGCGTCTCGA	9660
AAACATAGTC	GTTGCAAACG	CGCACCACGT	ATTGGTAGCC	GATTAGGAAG	TGCGGCGGCG	9720
GGTATAAGTA	GAGCGGCCAG	TTTTGCGTGG	CCGGCTGTCT	GGCGCCCAGA	TTCCGTAGCA	9780
TGAGTGTGGG	GTATCGGTAC	ACGTGACGCG	ACATCCAGGA	GATGCCCCGCG	GCCGAAATGG	9840
CGGCCCTGGC	GTAATCCCGG	GCCCCGTTCC	ATATATTCTC	GAGAGGACGA	AAGATTCCAT	9900
GGTGTGCAGG	GTCTGCCCCG	TAAGACGCGC	GCAATCTCTC	GCGCTCTGCA	AAAAACATAC	9960
AGATGAAACA	TTTTTGGGGC	TTTTCAGATG	ATGCATCCCG	CTTTACGGCA	AATGAAGCCC	10020
AGATCCGCGG	CAGTGGCGGG	GGTTCCTGCT	GCGGCCGCCG	GCGCGAGCGT	TGACTCAGGC	10080
GGTACTACCG	CGCCCCCTGG	TGTCGAGTGC	GGCGAGGGGG	AAGGGTTAGC	TCGGCTGTAC	10140
GCGCACCCGG	ACACACACCC	GCGCGTGTGC	GTGAAGCGCG	ATGCGGCGGA	GGCGTACGTT	10200
CCCCGGGAGA	ACTTATTCCG	CGACCCGACG	GGGGAGGAAC	CCGAAGGGAG	CCGAGACCTA	10260
AAGTACAAGG	CCGGTCGGCA	GTTGCGCGCC	GGCATGCCCC	GAAAGCGGGT	GCTGACCGAA	10320
GGGGACTTTG	AGGTGGATGA	GCGCACTGGC	ATCAGCTCAG	OCAAAGCCCA	CATGGAGGCG	10380
GCCGATCTAG	TGCGGGGCTTA	CGAGCAAACG	GTGAAGCAAG	AGGCTAATTT	TCAAAAGTCA	10440
TTTAATAACC	ACGTGCGGAC	ACTGATCTCC	CGCGAGGAGA	CCACCCTGGG	TTTGATGCAC	10500
TTGTGGGACT	TTGCGGAGGC	ATACGCGCAG	AACCCCGGCA	GCAAGACCCT	TACGGCCCAA	10560
GTCTTTCTCA	TCGTGCAGCA	CTTGCAAGAT	GAGGGCATTT	TTGGGGAAGC	TTTCTTAAGC	10620
ATAGCAGAGC	CCGAGGGACG	ATGGATGCTA	GATCTGCTAA	ACATATTGCA	GTCCATTGTG	10680
GTGCAAGAGC	GCCAGCTTTC	GCTATCTGAA	AAGGTAGCCG	CGGTGAACTA	CTCCGTAGTT	10740
ACCCTGGGCA	AACATTATGC	CCGCAAGATC	TTTAAGAGCC	CCTTTGTGCC	GCTTGACAAG	10800
GAGGTGAAGA	TCAGTACATT	TTATATGCGC	GCGGTGCTTA	AGGTCTCTGG	TCTAAGTCAC	10860
GACCTGGGCA	TGTACAGAAA	CGAAAAGGTG	GAGAAGCTAG	CTAGCATAGG	CAGGCGTTCC	10920
GGAGATGAGC	GACGCGGAGC	TGCTGTTCAA	CCTCCGCCGC	GCACTAACCA	CTGGCGATTG	10980

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FIGURE 1G

TGAAGCATTG	GATGAAGGCG	GGGACTTTAC	CTGGGCTCCG	CCAACTCGCG	CGACCGCGGC	11040
GGCCGCTTTG	CCGGGGCCCC	AGTTTGAGAG	TGAAGAGACG	GACGATGAAG	TCGACGAATG	11100
AGTGATGCGG	ACCCCCGTAT	CTTTCAGCTG	GTCAGTCGGC	AAGAGACCGT	AGCCATGGCG	11160
GAAGCGCCCC	GAAGCCTGGG	CCCCGCCCC	TCCAATCCTA	GTTTGCAGGC	TTTATTCCAA	11220
AGCCAGCCCA	GCGCCGAGCA	GGAGTGGCAC	GGCGTGCTGG	AGAGAGTCAT	GGCCCTTAAC	11280
AAAAATGGAG	ACTTTGGCTC	GCAGCCCCAG	GCGAACCGGT	TTGGAGCCAT	CCTCGAAGCC	11340
GTGGTGCCCC	CGCGCTCCGA	TCCCACCCAT	GAAAAAGTGC	TAGCTATTGT	GAATGCGCTC	11400
TTGGAGACTC	AGGCCATCCG	TCGCGATGAG	GCCGGACAGA	TGTACACCGC	GCTGTTGCAG	11460
CGGGTGGCCA	GATACAACAG	TGTGAATGTG	CAGGGCAATT	TGGACAGGCT	GATTCAGGAC	11520
GTGAAGGAGG	CTCTGGCGCA	GCGCGAGCGC	ACCGGGCCGG	GGGCCGGCCT	AGGGTCTGTG	11580
GTAGCCTTGA	ATGCCTTCCT	GAGCACACAG	CCAGCGGTGG	TGGAGAGGGG	CCAGGAGAAC	11640
TATGTGGCCT	TTGTGAGCGC	CTTAAAACTC	ATGGTGACCG	AGGCGCCGCA	GTCTGAGGTT	11700
TACCAGGCCG	GACCTAGTTT	CTTTTTTCAA	ACCAGCCGGC	ACGGTTCGCA	GACGGTAAAC	11760
CTCAGTCAGG	CCTTTGATAA	CTTGCGACCC	CTCTGGGGCG	TGCGCGCGCC	AGTACACGAG	11820
CGTACTACCA	TCTCCTCTCT	GCTCACACCA	AACACCCGCT	TGCTCTTGCT	CCTCATTGCG	11880
CCCTTTACGG	ACAGCGTGGG	CATATCCCGG	GACAGTTACC	TGGGGCATCT	GCTGACCCTT	11940
TACCGGGAGA	CCATAGGTAA	CACTCGAGTT	GATGAGACCA	CGTACAACGA	GATCACGGAA	12000
GTGAGTCGGG	CCCTGGGCGC	CGAAGACGCG	TCTAACTTGC	AAGCCACTCT	CAACTACTTA	12060
CTCACAAATA	AGCAGAGCAA	GTTGCCACAG	GAGTTTTCTC	TGAGTCCCGA	AGAGGAGCGG	12120
GTGCTGCGCT	ACGTGCAGCA	ATCTGTCACT	TTATTTTTAA	TGCAGGATGG	ACACACGGCC	12180
ACCACTGCTC	TAGATCAGGC	TGCGGCCAAC	ATAGCGCCCT	CGTTTTACGC	GTCCCACCGC	12240
GACTTTATAA	ACCGACTGAT	GGACTATTTT	CAGCGAGCTG	CGGCTATGGC	CCCTGACTAC	12300
TTTTTACAGG	CTGTTATGAA	TCCCCACTGG	CTCCCGCCGC	CGGGTTTCTT	TACTCAGGAG	12360
TTTGACTTTC	CGGAGCCCAA	CGGAGGCTTC	CTGTGGGATG	ATTTGGACAG	CGCGCTCCTA	12420
CGCGCGCACG	TAAAAGAAGA	GGAGGATCAA	GGAGCTGTGG	GCGGCACGCC	GGCGGCTTCG	12480
GCGCCCGCGT	CTCGCGCGCA	CACACCACCG	CCGCCGCCCG	GTGCCGCGGA	CCTCTTTGCT	12540
CCTAACGCCT	TCCGCAATGT	GCAAAATAAC	GGCGTGATG	AACTTATTGA	CGGCTTAAGC	12600
AGATGGAAGA	CTTACGCCCA	GGAGAGGCAG	GAAGTCGTTG	AGCGGCACAG	GCGCAGAGAG	12660
GCGCGTCGCC	GGGCGCGCGA	GGCGCGTCTA	GAGTCGAGCG	ATGATGACGA	CAGCGACCTA	12720
GGGCCGTTTC	TACGGGGCAC	GGGGCACCTC	GTTCAACAAC	AGTTTATGCA	TCTGAAGCCC	12780
CGGGGTCCCC	GCCAGTTTTG	GTAACCGCAC	TGTATTAAGC	TGTAAGTCCT	CTCATTTGAC	12840

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FIGURE 1H

ACTTACCAAA GCCATGGTCT TGCTTCGCCT CTGACACTTT CTCTCCCCC ACACGCGGCA 12900
 CCCTACAGCC TAGGGGCGAT GCTCCAGCCC GAACTGCAGC CAATTCCGCT GTCCCGCCGC 12960
 CGGCTTATGA GGCGGTGGTG GCTGGGGCCT TCCAGACGCT TTCTCTTCGA CGAGATCCAC 13020
 GTCCCGCCGC GATATGCTGC CGCGTCTGCG GGGAGAAACA GTATCCGTTA TTCCATGCTG 13080
 CCCCCGTTGT ATGACACCAC GAAGATATAC CTTATCGACA ACAAATCTTC AGACATCCAA 13140
 ACTCTGAATT ACCAAAACGA CCACTCAGAT TACCTCACTA CCATCGTGCA GAACAGCGAC 13200
 TTCACGCCCC TGGAGGCTAG CAACCACAGC ATCGAGCTAG ACGAGCGGTC CCGCTGGGGC 13260
 GGAAACCTTA AAACCATCCT TTATACAAAC CTGCCTAATA TCACCCAGCA CATGTTTTCT 13320
 AACTCTTTTC GGGTAAAGAT GATGGCCTCA AAAAAAGACG GCGTGCCCCA GTACGAGTGG 13380
 TTCCCCCTAA GGTGCCCCGA GGGTAACTTT TCTGAGACTA TGGTCATTGA CCTCATGAAC 13440
 AATGCCATCG TAGAGCTGTA CTTGGCTTTG GGGCGCCAGG AGGGCGTGAA GGAAGAGGAC 13500
 ATCGGGGTAA AGATCGATAC GCGCAACTTT AGTCTGGGCT ATGACCCGCA GACCCAGTTA 13560
 GTGACGCCCC GCGTATACAC CAATGAAGCT ATGCATGCGG ACATCGTGTT GCTGCCGGGC 13620
 TGTGCTATAG ACTTTACGCA CTCCCGATTA AACAACCTCT TGGGCATACG CAAGCGTTTT 13680
 CCGTACCAAG AGGGCTTCGT CATCTCCTAT GAGGACCTTA AGGGGGGTAA CATCCCCGCT 13740
 TTGATGGACG TGGAGGAGTT TAACAAGAGC AAGACGGTTC GAGCTTTGCG GGAGGACCCC 13800
 AAGGGGCGCA GTTATCACGT GGGCGAAGAC CCAGAAGCCA GAGAAAACGA AACCGCCTAC 13860
 CGCAGCTGGT ACCTGGCTTA CAATTACGGG GACCCAGAAA AAGGGGTGCG GGCCACCACA 13920
 CTGCTGACTA CCGGCGACGT GACCTGCGGG GTGGAACAGA TCTACTGGAG CTTGCCGGAC 13980
 ATGGCACTGG ACCCAGTCAC TTTCAAGGCT TCGCTGAAAA CTAGCAATTA CCCCCTGGTG 14040
 GGCACAGAAC TTTTGCCACT GGTGCGCGT AGCTTTTATA ACGCTCAGGC TGTGTACTCA 14100
 CAGTGGATAC AAGAAAAAAC TAACCAGACC CACGTTTTCA ATCGCTTCC CGAAAATCAG 14160
 ATCTTGGTGC GGCCCCCTGC GCCTACCATC ACGTCCATAA GTGAAAATAA GCCCAGCTTG 14220
 ACAGATCACG GAATCGTGCC GCTCCGGAAC CGCTTGGGGG GCGTGCAACG TGTGACTTTG 14280
 ACTGACGCGC GGCGAAGATC CTGCCCCCTAC GTCTACAAGA GCTTAGGCAT TGTGACGCCG 14340
 CAAGTGCTAT CTAGCCGCAC GTTTTAAGCA GACAGGGGCA CAGCAGCCGT TTTTTTTTTT 14400
 TTTTTTTTCG TCCACCAGGG ACTGTCAGGA ACATGGCCAT TCTAATCTCT CCTAGCAATA 14460
 ACACGGGCTG GGGCCTGGGA TGCAATAAGA TGTACGGGGG CGCTCGCATA CGTTCAGACT 14520
 TGCATCCAGT GAAGGTGCGG TCGCATTATC GGGCCGCTG GGGCAGCCGC ACCGGTCGGG 14580
 TGGGTCGCCG CGCAACCGCA GCTTTAGCCG ATGCCGTCGC GGCCACCGGT GATCCGGTGG 14640

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FIGURE II

CCGACACAAT	CGAGGCGGTG	GTGGCTGACG	CCCGCCAGTA	CCGGCGCCGC	AGACGGCGAG	14700
GGGTGCGCCG	AGTCAGAAAG	TTGCGTCGGA	GCCCCCGCAC	TGCCCTGCAG	CGACGGGTTC	14760
GTAGCGTACG	CCGACAAGTG	GCGAGGGCCC	GCAGGGTGGG	CCGGCGCGCG	GCCGCTATCG	14820
CAGCAGACGC	GGCCATGGCC	ATGGCGGCGC	CAGCTCGGCG	ACGCCGTAAC	ATCTACTGGG	14880
TACGCGATGC	GGCAACCGGA	GCCCGCGTTC	CGGTGACAAC	CCGGCCTACG	GTCAGCAACA	14940
CCGTTTGAAA	TGTCTGCTAC	TTTTTTTTGC	TTCAATAAAA	GCCCCCGGAC	TGATCAGCCA	15000
CACCTTGTC	CGCAGAATTC	TTTCAAACCA	TTGCGCTCTC	AGCGCGCGCG	CCGATAAACC	15060
CACTGTGATG	GCCTCCTCTC	GGTTGATTAA	AGAAGAAATG	TTAGACATCG	TGGCGCCTGA	15120
GATTTACAAG	CGCAAACGGC	CCAGGCGAGA	ACGCGCAGCA	CCGTATGCTG	TGAAGCAGGA	15180
GGAGAAGCCT	TTAGTAAAGG	CGGAGCGCAA	AATTAAGCGC	GGCTCCAGAA	AGCGGGCCTT	15240
GTCAGGCGTT	GACGTTCCCT	TGCCCCGATG	CGGCTTTGAG	GACGACGAGC	CCCACATAGA	15300
ATTTGTGTCT	GCGCCGCGTC	GGCCCTACCA	GTGGAAGGGC	AGGCGGGTGC	GCCGGGTTTT	15360
GCGTCCCGGC	GTGGCCGTTA	GTTTCACGCC	CGGCGCGCGC	TCCCTCCGTC	CGAGTTCCAA	15420
GCGGGTGTAT	GACGAGGTGT	ACGCAGACGA	CGACTTCTTA	GAAGCGGCCG	CGGCCCCGTA	15480
GGGGGAGTTT	GCTTACGGAA	AGCGGGGACG	CGAGGCGGCC	CAGGCCCAGC	TGCTACCGGC	15540
TGTGGCCGTG	CCGGAACCGA	CTTACGTAGT	TTTGATGAG	AGCAACCCCA	CCCCGAGCTA	15600
CAAGCCTGTA	ACCGAGCAGA	AAGTTATTCT	TTCCCGCAAG	CGGGGTGTGG	GGAAGGTAGA	15660
GCCTACCATC	CAGGTTTTAG	CTAGCAAGAA	GCGGCGCATG	GCCGAGAATG	AGGATGACCG	15720
CGGGGCCGGC	TCCGTGGCCG	AAGTGCAGAT	GCGAGAAGTT	AAACCGGTAA	CCGCTGCCTT	15780
GGGTATTGAG	ACCGTGGATG	TTAGCGTGCC	CGACCACAGC	ACTCCCATGG	AGGTCGTGCA	15840
GAGTCTCAGT	CGGGCGGCTC	AAGTAGCTCA	ACGCCTGACC	CAACAACAGG	TGCGGCCTTC	15900
GGCTAAGATT	AAAGTGGAGG	CCATGGATCT	TTCTGCTCCC	GTAGACGCAA	AGCCTCTTGA	15960
CTTAAAACCC	GTGGACGTAA	AGCCGACCCC	GACCTTCGTG	CTTCCCAGCT	TTCGTTCACT	16020
CAGCACCCAA	ACTGACTCTT	TGCCCCGCGC	AGTGGTCGTG	CCGCGCAAGC	CCCGCGTGCA	16080
CCGTGCTACT	AGGCGTACTG	CGCGCGGCTT	GCTGCCCTAT	TACCGCCTGC	ATCCTAGCAT	16140
CACGCCGACA	CCGGGTACC	GAGGATCTGT	CTACACGAGC	TCGGGTGTGC	GCCTGCCCCG	16200
CGTCCGGGCG	CCGCCGTCG	CGCCGTACCC	GCAGGGCGAC	TCCCCGCCTC	AGCGTGCCG	16260
CGGCCGCGGC	GCTGCTGCCC	GGCGTGCGCT	ATCACCTAG	CATCCGCCAA	GCGGCCACAG	16320
TAACCCGGCT	CCGCCGTTAA	GCGCTGTGAA	ACTGCAACAA	CAACAACAAA	AATAAAAAAA	16380
AGTCTCCGCT	CCACTGTGCA	CCGTTGTCCA	TCGGCTAATA	AAGTCCCGCT	TTGTGCGCCG	16440
CAGGAACCAC	TATCCGTAAC	CTGCGAAAAT	GAGTCCCCGC	GGAAATCTGA	CTTACAGACT	16500

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FIGURE 1J

GAGAATACCG	GTCGCCCTCA	GTGGCCGGCG	CCGGCGCCGA	ACAGGCTTGC	GAGGAGGGTC	16560
TGCGTACCTG	CTCGGCCGCC	GCAGAAGGCG	CGCGGGCGGC	GGCCGCCTGC	GCGGGGGCTT	16620
CCTTCCCCTC	CTGGCTCCCA	TCATTGCAGC	CGCCATCGGC	GCAATCCCCG	GCATCGCATC	16680
AGTGGCCATT	CAGGCGGGCC	ACAACAAATA	GGGACAGTGT	AAAGAAAGCT	CAATCTCAAT	16740
AAAACAAACC	GCTCGATGTG	CATAACGCTC	TCGGCCTGCA	ACTTCTGCTG	CTTACGTCTT	16800
TGACCAAAGT	CACTACTGTT	TTCCTTTTAC	CCAGAGCCGG	CGCCAGCCCC	ACACAGCTTG	16860
TTAACACGCC	ATGGACGAAT	ACAATTACGC	GGCTCTTGCT	CCCCGGCAAG	GCTCCCGACC	16920
CATGCTGAGC	CAGTGGTCCG	GCATCGGCAC	GCACGAAATG	CACGGCGGAC	GTTTTAATCT	16980
GGGCAGTTTG	TGGAGCGGGA	TCAGGAATGT	GGGCAGCGCG	TTAAGAACTG	GGGCTCTCGG	17040
GCCTGGCACA	GCAATGCGGG	CAAGCGTTGC	GCGCCCAGCT	GAAAAAGACG	GGCTTGCAAG	17100
AAAAGATATT	GAGGGCGTTA	GCGCCGGTAT	CCACGGAGCC	GTGGATCTGG	GCCGTCAGCA	17160
GCTAGAGAAA	GCTATTGAGC	AGCGCCTAGA	GCGTCGCCCC	ACCGCTGCCG	GTGTGGAAGA	17220
CCTTCCGCTT	CCCCCGGGAA	CAGTCTTAGA	AGCTGATCGT	TTACCGCCCT	CCTACGCCGA	17280
AGCGGTGGCT	GAGCGCCCGC	CGCCGGCTGA	CGTTCCTCTG	CCCGCATCCT	CAAAGCCGCC	17340
GGTGGCGGTG	GTGACCTTGC	CCCCGAAAAA	GAGAGTGTCT	GAAGAGCCTG	TGGAGGAAGT	17400
TGTGATTTCG	TCCTCCGCAC	CGCCGTCTGA	CGACGAGGTT	ATGGCACC GC	AGCCGACTCT	17460
GGTAGCCGAG	CAGGGCGCCA	TGAAAGCAGT	GCCCGTGATT	AAGCCGGCTC	AACCTTTTAC	17520
CCCAGCTGTG	CACGAAACGC	AACGCATAGT	GACCAACTTG	CCAATCACCA	CAGCTGTGAC	17580
ACGGCGACGC	GGGTGGCAGG	GCACTCTGAA	TGACATCGTG	GGCCTCGGCG	TTCGTACCGT	17640
GAAGCGCCGG	CGGTGCTATT	GAGGGGGGCG	GCAGCGGTAA	TAAAGAGAAC	ATAAAAAAGC	17700
AGGATTGTGT	TTTTTGTTTA	GCGGCCACTG	ACTCTCCCTC	TGTGTGACAC	GTCCTCCGCC	17760
AGAGCGTGAT	TGATTGACCG	AGATGGCTAC	CCCGTCGATG	CTGCCGCAAT	GGTCCTACTG	17820
CACATCGCCG	GTCAGGACGC	GTCCGAGTAC	CTGTCCCCCG	GCTTGGTGCA	ATTCCGCACAA	17880
GCCACCGAAT	CCTACTTTAA	CATTGGGAAC	AAGTTTAGAA	ACCCACCCGT	CGCCCCGACG	17940
CACGATGTCA	CCACGGAGCG	TTCGCAGCGT	CTGCAGCTCC	GCTTCGTGCC	CGTAGACCGG	18000
GAGGACACAC	AGTACTCCTA	CAAAACCCGC	TTCCAGCTAG	CCGTGGGCGA	CAACCGGGTG	18060
CTGGACATGG	CCAGCACGTA	TTTTGACATC	CGCGGTACGC	TGGAGAGGGG	CGCCAGTTTC	18120
AAGCCTTACA	GCGGCACGGC	CTACAACCTC	TTTGCCCCCA	ACAGTGCCCC	TAACAATACG	18180
CAGTTTAGGC	AGGCCAACAA	CGGTCATCCT	GCTCAGACCA	TAGCTCAAGC	TTCTTACGTG	18240
GCTACCATCG	GCGGTGCCAA	CAATGACTTG	CAAATGGGTG	TGGACGAGCG	TCAGCAGCCG	18300

FIGURE 1K

GTGTATGCGA	ACACTACGTA	CCAGCCGGAA	CCTCAGCTCG	GCATTGAAGG	TTGGACAGCT	18360
GGATCCATGG	CGGTCATCGA	TCAAGCAGGC	GGGCGGGTTC	TCAGGAACCC	TACTC AA ACT	18420
CCCTGCTACG	GGTCCTATGC	TAAGCCGACT	AACGAGCACG	GGGGCATTAC	TAAAGCAAAC	18480
ACTCAGGTGG	AGAAAAAGTA	CTACAGAACA	GGGGACAACG	GTAACCCGGA	AACAGTGT TT	18540
TATACTGAAG	AGGCTGACGT	GCTAACGCCC	GACACCCACC	TTGTTACAGC	GGTACCGGCC	18600
GCGGATCGGG	CAAAGGTGGA	GGGGCTATCT	CAGCACGCAG	CTCCCAACAG	GCCGAAC TTT	18660
ATCGGCTTTC	GGGACTGCTT	TGTAGGCTTG	ATGTATTATA	ACAGCGGGGG	CAACCTGGGC	18720
GTCTTAGCGG	GTCAATCCTC	TCAGCTGAAT	GCCGTGGTAG	ACCTGCAAGA	CCGCAACACT	18780
GAGCTTTCCT	ATCAGATGCT	TCTTGCAAAC	ACGACGGACA	GATCCC GCTA	TTT TTAGCATG	18840
TGGAACCAAG	CCATGGACTC	GTACGACCCG	GAGGTCAGGG	TGATAGATAA	CGTGGGCGTA	18900
GAGGACGAGA	TGC C TAATTA	CTGCTTTC CG	TTGTCGGGGG	TTCAGATTGG	AAACCGTAGC	18960
CACGAGGTTC	AAAGAAACCA	ACAACAGTGG	CAAAATGTAG	CTAATAGTGA	CAACAATTAC	19020
ATAGGCAAGG	GGAACCTACC	GGCCATGGAG	ATAAATCTAG	CGGCCAATCT	CTGGCGTTCC	19080
TTTTTGTACA	GTAATGTGGC	GTTGTACTTG	CCAGACAACC	TTAAATTCAC	CCCTCACAAC	19140
ATTCAACTCC	CGCCTAACAC	GAACACCTAC	GAGTACATGA	ACGGGCGAAT	CCCCGTTAGC	19200
GGCCTTATTG	ATACGTACGT	AAATATAGGC	ACGCGGTGGT	CGCCCGATGT	GATGGACAAC	19260
GTGAATCCCT	TTAACCACCA	CCGCAACTCG	GGCCTGCGTT	ACCGCTCCCA	GCTGCTGGGC	19320
AACGGCGGCT	TCTGCGACTT	TCACATTCAG	GTGCCACAAA	AGTTTTTTGC	TATTCGAAAC	19380
CTGCTTCTCC	TGCCCCGGCAC	GTACACTTAC	GAGTGGTCC T	TTAGAAAGGA	CGTAAACATG	19440
ATCCTTCAGA	GCACTCTGGG	CAATGATCTG	CGGGTCGATG	GGGCCACTGT	TAATATTACC	19500
AGCGTCAACC	TCTACGCCAG	CTTCTTTCCC	ATGTCACATA	ACACCGCTTC	CACTTTGGAA	19560
GCTATGCTCC	GCAACGACAC	TAATGACCAG	TCTTTTAATG	ACTATCTCTC	GGCGGCTAAC	19620
ATGTTGTATC	CCATTCCGCC	CAATGCCACC	CAACTGCCCA	TCCCCTCAGC	CAACTGGGCA	19680
GCGTTCCGTG	GCTGGAGTCT	CACCCGGCTA	AAACAGAGGG	AGACACCGGC	GCTGGGGTCC	19740
CCGTTCGATC	CCTATTTTAC	CTATTCGGGC	ACCATCCCCT	ACCTGGACGG	CACTTTTTAC	19800
CTCAGCCACA	CCTTTCGCAA	GGTGGCCATC	CAGTTTGACT	CTTCTGTGAC	CTGGCCCCGC	19860
AATGACAGGC	TTTTAACCCC	TAACGAGTTC	GAAATA AAAA	TAAGTGTGGA	CGGTGAAGGC	19920
TACAACGTGG	CTCAGAGCAA	TATGACTAAG	GACTGGTTCC	TGGTGCAGAT	GCTAGCGAAT	19980
TACAACATAG	GCTACCAGGG	ATATCACCTG	CCCCCGGACT	ACAAGGACAG	GACATTTTCC	20040
TTCCTGCATA	ACTTCATACC	CATGTGCCGA	CAGGTTCCCA	ACCCAGCAAC	CGAGGGCTAC	20100
TTTGGACTAG	GCATAGTGAA	CCATAGAACA	ACTCCGGCTT	ATTGGTTTCG	ATTCTGCCGC	20160

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THE

GCTCCGCGCG	AGGGCCACCC	CTACCCCCAA	CTGGCCTTAC	CCCCTCATTG	GGACCCACGC	20220
CATGCCCTCC	GTGACCCAGA	GAGAAAGTTT	CTCTGCGACC	GCACCCTCTG	GCGAATCCCC	20280
TTTCTCTCGA	ACTTCATGTC	CATGGGGTCC	CTCACAGATC	TCGGACAGAA	CCTACTGTAT	20340
GCCAATGCCG	CGCATGCCCT	AGACATGACT	TTTGAGATGG	ATCCCATCAA	TGAGCCCACT	20400
CTGCTGTACG	TTCTGTTTGA	GGTGTTTGAC	GTGGCCCGCG	TTCACCAGCC	CCACAGAGGC	20460
GTGATCGAAG	TGGTGTACTT	GAGAACGCCA	TTCTCAGCCG	GCAACGCTAC	CACATAAGTG	20520
CCGGCTTCCC	TCTCAGGCC	CGCGATGGGT	TCTCGGGAAG	AGGAGCTGAG	ATTTCATCCTT	20580
CACGATCTCG	GTGTGGGGCC	ATACTTCCTC	GGCACTTTCG	ATAAACACTT	TCCGGGGTTC	20640
ATCTCCAAAG	ACCGAATGAG	CTGTGCCATA	GTCAACACTG	CCGGACGCGA	AACCGGGGGC	20700
GTGCATTGGC	TGGCCATGGC	TTGGCACCCA	GCCTCGCAGA	CCTTTTACAT	GTTTGACCCT	20760
TTCGGTTTCT	CGGATCAAAA	GCTAAAGCAA	ATTTACAAC	TTGAGTATCA	GGGCCTCCTA	20820
AAGCGCAGCG	CCCTGACTTC	CACTGCTGAC	CGCTGCCTGA	CCCTTATTCA	AAGCACTCAA	20880
TCTGTCCAGG	GACCCAACAG	CGCCGCCTGC	GGTCTGTTCT	GCTGCATGTT	CCTCCACGCC	20940
TTTGTCCGCT	GGCCGCTTAG	GGCCATGGAC	AACAATCCCA	CCATGAACCT	CATCCACGGA	21000
GTTCCCAACA	ACATGTTGGA	GAGCCCCAGC	TCCCAAAATG	TGTTTTTGAG	AAACCAGCAA	21060
AATCTGTACC	GTTTCCTAAG	ACGCCACTCC	CCCCATTTTG	TTAAGCATGC	GGCTCAAATT	21120
GAGGCTGACA	CCGCCTTTGA	TAAAATGTTA	ACAAATTAGA	CCGTGAGCCA	TGATTGCAGA	21180
AGCATGTCAT	TTTTTTTTTA	TTGTTTAAAA	TAAAAACAAC	ACATAACATC	TGCCGCCTGT	21240
CCTCCCGTGA	TTTCTTCTGC	TTTATTTGCA	AATGGGGGGC	ACCTTAAAAC	AAAGAGTCAT	21300
CTGCATCGTA	CTGATCGATG	GGCAGAATAA	CATTCTGATG	CTGGTACTGC	GGGTCCAGC	21360
GGAATTCCGG	AATGGTAATG	GGGGGGCTCT	GTTTAACCAG	CGCGGACCAC	ATCTGCTTAA	21420
CCAGCTGCAA	GGCTGAAATC	ATATCTGGAG	CCGAAATCTT	GAAATCGCAG	TTTCGCTGGG	21480
CATTAGCCCG	CGTCTGCCGG	TACACAGGGT	TACAGCACTG	AAATACTAAC	ACCGATGGGT	21540
GTTCTACGCT	GGCCAGGAGT	TTGGGATCTT	CTACGAGGCT	CTTATCTACC	GCAGAGCCCG	21600
CGTTGATATT	AAAGGGCGTT	ATCTTGCATA	CCTGACGGCC	TAGGAGGGGC	AATTGGGAGT	21660
GACCCAGTT	ACAATCACAC	TTTAAAGGCA	TAAGCAGATG	AGTTCCGGCA	CTTTGCATCC	21720
TGGGGTAACA	GGCTTTCTGA	AAGGTCATGA	TCTGCCAGAA	AGCCTGCAAA	GCCTTGGGCC	21780
CCTCGCTGAA	AAACATACCA	CAAGACTTTG	AGGTAAAGCT	GCCGGCCGGC	AAAGCGGCGT	21840
CAAAGTGACA	GCAAGCCGCG	TCTTCATTCT	TTAGCTGCAC	TACGTTTCATA	TTCCACCGGT	21900
TGGTGGTGAT	CTTTGTCTTA	TGCGGGGTCT	CTTTTAAAGC	CCGCTGCCCA	TTTTCGCTGT	21960

FIGURE 1M

TCACATCCAT CTCTATCACT TGGTCTTTGG TAAGCATAGG CAGGCCATGC AGGCAGTGAA 22020
 GGGCCCCGTC TCCCCCTCG GTACACTGGT GGC GCCAGAC CACACAGCCC GTGGGGCTCC 22080
 ACGAGGTCGT CCCCAGGCCT GCGACTTTTA ACACAAAATC ATACAAGAAG CGGCCCATAA 22140
 TAGTTAGCAC GGTTTTCTGA GTACTGAAAG TAAGAGGCAG GTACACTTTA GACTCATTAA 22200
 GCCAAGCTTG TGCAACCTTC CTAAACACT CGAGCGTGCC AGTGTCGGGC AGCAAGGTTA 22260
 AGTTTTTAAT ATCCACTTTC AAAGGCACAC ACAGCCCCAC TGCTAATTCC ATGGCCCGCT 22320
 GCCAAGCAAC TTCGTCGGCT TCCAGCAAGG CCCGGCTGGC CGCCGGCAGG GCGGGAGCGG 22380
 CGGCCTCAGC GGCTGGGGCT GAAGGTTTGA AAATCTTGGC GCGCTTAACG GCTGTGACAT 22440
 CTTGCGCGGG GGGCTCAGCG ATCGGCGCGC GCCGTTTGCG GCTGACTTTT TTCCGGGGCG 22500
 TCTCATCTAT CACTAAGGGG TTCTCGTCCC CGCTGCTGTC AGCCGAAGTC GTGGCTCGCG 22560
 TTAAGTCACC GCTGCGATTG ATTATTCTCT CCTAGATAAC GACAACAAAT GGCAGAGAAA 22620
 GGCAGTGAAA ATCAGCGGCC AGAGAACGAC ACTGAGCTAG CAGCGGTTTC AGAAGCCCTA 22680
 GGC GCGGCCG CTTGCGCCCC CTCACGTAAC TCCCCGACTG ACACGGATTG AGGGGTGGAA 22740
 ATGACGCCCA CCAGCAGCCC CGAGCCGCCC GCCGCTCCCC CAAGTTCGCC TGCCGCAGCA 22800
 CCTGCCCCTC AGAAGAACCA GGAGGAGCTC TCTTCCCCCG AGCCCGCGGT AGCAGCAGCG 22860
 GAGCCAGAAG CCGCTTCGCG GCCCAGACCA CCCACACCCA CCGTTCAGGT CCCGCGGGAG 22920
 CCGAGCGAGG ATCAACCTGA CGGACCCGCG ACGAGGCCTT CGTACGTGAG CGAGGATTGC 22980
 CTCATCGGCC ATATCTCTCG CCAGGCTAAC ATTGTTAGAG ACAGCCTGGC AGACCGCTGG 23040
 GAGTTAGAGC CCACCGTGTC GGCTCTCTCC GAGGCTTACG AAAAGCTCCT CTTTGTGCC 23100
 AAGGTACCAC CCAAGAAGCA AGAGAATGGC ACTTGCGAAC CTGAACCTCG CGTTAATTTT 23160
 TTCCCCACCT TTGTAGTGCC CGAACTTTA GCCAGTAGC ACATCTTTT CCAAAACCAA 23220
 AAAATCCCCC TGTCTTGTCG CGCCAACCGC ACCCACACAG ACACCATCAT GCACCTCTAC 23280
 TCGGGGGACT CCTTACCGTG CTTCCCCACG CTGCAGCTGG TCAACAAAAT CTTTGAAGGC 23340
 TTGGGCTCAG AGGAGCGGCG CGCAGCCAAC TCGCTGAAAG ATCAAGAGGA TAACAGCGCG 23400
 TTAGTTGAGC TCGAAGGGGA CAGTCCCCGA CTGGCTGTGG TTAAGCGCAC ACTGTCTTTG 23460
 ACACATTTG CCTACCTG CATAACACTA CCGCCTAAGG TGATGGCAGC TGCTACTGGC 23520
 AGCCTCATTC ATGAATCAGC AGCGACCGCC GAACCGGAAG CTGAGGCGCT GCCAGAAGCC 23580
 GAGGAGCCCG TGGTTAGTGA CCCTGAACTT GCTCGCTGGT TGGGGCTCAA CTTACAACAG 23640
 GAGCCCGAGG CCACGGCCCA GGCTTTGGAA GAAAGACGCA AGATTATGTT GGCAGTATGC 23700
 TTAGTCACAC TTCAGCTCGA GTGCCTGCAC AAGTTTTTTT CTTAGAGGA TGTCATCAAA 23760
 AAGCTGGGAG AGAGCCTCCA CTACGCCTTT CGCCACGGCT ACGTGCGCCA AGCCTGCTCC 23820

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FIGURE 1N

ATTTCTAACG	TGGAAC TAAC	GAACATCGTC	TCATACCTGG	GTATCTTGCA	CGAAAACCGC	23880
TTGGGACAGA	GTACCCTACA	CGCCACCCTT	AAAGACGAGA	ACCGCAGAGA	CTACATCAGA	23940
GACACAGTCT	TTCTCTTTCT	GGTTTATACT	TGGCAGACTG	CCATGGGCAT	TTGGCAGCAG	24000
TGCCTCGAGA	CTGAGAACGT	AAAAGAACTT	GAAAAGCTCT	TGCAAAAAAG	CAAGAGGGCT	24060
CTCTGGACGG	GCTTCGACGA	GCTCACCATA	GCTCAAGACC	TAGCTGACAT	AGTGTTCCTC	24120
CCCAAATTCT	TGCACACCTT	GCAAGCCGGC	CTGCCAGACC	TTACATCCCA	GAGTCTCCTT	24180
CACAACTTTC	GCTCCTTCAT	TTTCGAACGC	TCGGGCATTC	TACCCGCCAT	GTGCAATGCA	24240
CTGCCCACCG	ACTTCATCCC	TATCAGCTAC	CGGGAGTGCC	CTCCAACCTT	CTGGGCCTAC	24300
ACCTACCTCT	TTAAACTGGC	CAATTACCTC	ATGTTTCACT	CCGACATCGC	TTACGATCGG	24360
AGCGGCCCCG	GTCTCATGGA	ATGCTACTGT	CGCTGCAACC	TGTGCAGTCC	TCACCGCTGC	24420
TTGGCGACCA	ACCCCGCCCT	GCTCAGCGAG	ACCCAAGTTA	TCGGTACCTT	CGAGATTCAG	24480
GGCCCTCCTG	CTCAAGACGG	ACAGCCGACC	AAACCGCCCC	TCAGGCTGAC	TGCAGGTCTC	24540
TGGACTTCCG	CCTACCTGCG	CAAATTTGTA	CCGCAAGACT	TCAACGCCCA	CAAAATAGCC	24600
TTCTACGAAG	ACCAATCCAA	AAAGCCGAAA	GTGACCCCCA	GCGCTTGTGT	CATCACTGAA	24660
GAAAAAGTTT	TAGCCCAATT	GCATGAAATT	AAAAAAGCGC	GGGAAGACTT	TCCTCTTAAA	24720
AAGGGGCACG	GAGTGTATCT	GGACCCTCAG	ACCGGCGAGG	AGCTGAACGG	ACCCGCACCC	24780
TCCGCAGCTA	GGAATGAAAC	CCCGCAGCAT	GTCGGCAGCC	GGGCCTTCCG	CGGCTCAGGC	24840
TTCGGAGGGC	CAACAGCTGC	CGCCACAGAC	AGCGGGGCTG	CAGCCGAGCA	AGAGGGCTGT	24900
GAGGAAGGTA	GTAGCTTCTC	TGAATCCAC	CGCCGCCCTG	GAAGACATAT	CCGAGGGGGA	24960
GGAAGGCTTC	CCCCTGACGG	ACGAGGAAGA	CGGGGACACC	CTGGAGAGCG	ATTTACGCGA	25020
CTTACGGAC	GAAGACGTCT	AGGAGGAGGA	TATGATTTCT	ATACCCCGCG	ACCAGGGGCA	25080
CTCCGGCGAG	CTCGAGGAGG	GCGAAATTCC	CGCAACGGTA	GCGGCGACGG	CGGTCAAGAA	25140
GGGCCAGGGC	AAGAAGAGTA	GGTGGGACCA	GCAGGTCCGC	TCCACAGCGC	CTCTAAAGGG	25200
CGCTAGAGGT	AAGAGGAGCT	ACAGCTCCTG	GAAACCCCTC	AAGCCCACTA	TCCTTTTCATG	25260
CTTACTGCAG	AGCTCCGGCA	GCACTGCCTT	CACTCGCCGC	TATCTGCTTT	TTCGCCATGG	25320
CGTGTCGGTT	CCCTCCAGGG	TAATTTCATTA	CTATAATTCT	TACTGCAGAC	CCGAAGCTGA	25380
CCAAAACCGC	CACTCAGAGC	AAAAAGAGCC	GCCGGAGTGC	CAGCGCGGCG	CGCCCTCGCC	25440
CTCCTCCTCT	TCCTCCCAAG	CGTGCTCGGG	CGCCCCGCCG	CCCCAAAGGC	CAGCGCCATC	25500
AGGCCGACGA	CGCAAGCACC	GAGGGCCGCG	ACAAGCTTCG	GGAGCTGATC	TTTCCCACTC	25560
TCTATGCCAT	ATTCCAACAA	AGTCGCGCTC	AGCGGTGTCA	CCTCAAAGTG	AAAAATAGAT	25620

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FIGURE 10

CCTTACGTTT ACTGACGCGC AGCTGCCTCT ACCACAACAA GGAGGAACAG CTCCAGCGAA 25680
 CCCTAGCAGA CTCCGAGGCG CTTCTCAGTA AATACTGCTC TGCAGCTCCG ACACGATTCT 25740
 CGCCGCCCTC TTATACCGAG TCTCCCGCCA AGGACGAATC CGGACCCGCC TAAACTCTCA 25800
 GCATGAGCAA AGAAATTCCC ACACCTTATG TTTGGACCTT TCAACCTCAG ATGGGAGCGG 25860
 CCGCAGGTGC CAGTCAAGAT TACTCGACCC GCATGAATTG GTTCAGCGCG GGACCTGATA 25920
 TGATCCACGA CGTTAACAAC ATTCGTGACG CCCAAAACCG CATCCTTATG ACTCAGTCGG 25980
 CCATTACCGC CACTCCCAGG AATCTGATTG ATCCAGACA GTGGGCCGCC CACCTCATCA 26040
 AACAAACCGT GGTGGGCACC ACCCACGTGG AAATGCCTCG CAACGAAGTC CTAGAACAAC 26100
 ATCTGACCTC ACATGGCGCT CAAATCGCGG GCGGAGGCGC TCGGGCGAT TACTTTAAAA 26160
 GCCCCACTTC AGCTCGAACC CTTATCCCGC TCACCGCTC CTGCTTAAGA CCAGATGGAG 26220
 TCTTTCAACT AGGAGGAGGC TCGCGTTCAT CTTTCAACCC CCTGCAAACA GATTTTGCCT 26280
 TCCACGCCCT GCCCTCCAGA CCGCGCCACG GGGGCATAGG ATCCAGGCAG TTTGTAGAGG 26340
 AATTTGTGCC CGCCGTCTAC CTCAACCCCT ACTCGGGACC GCCGGACTCT TATCCGGACC 26400
 AGTTTATACG CCACTACAAC GTGTACAGCA ACTCTGTGAG CGGTTATAGC TGAGATTGTA 26460
 AGACTCTCCT ATCTGTCTCT GTGCTGCTTT TCCGCTCAA GCCCCACAAG CATGAAGGGG 26520
 TTTCTGCTCA TCTTCAGCCT GCTTGTGCAT TGTCCCTAA TTCTATGTTGG GACCATTAGC 26580
 TTCTATGCTG CAAGGCCCGG GTCTGAGCCT AACGCGACTT ATGTTTGTGA CTATGGAAGC 26640
 GAGTCAGATT ACAACCCAC CACGGTTCTG TGGTTGGCTC GAGAGACCGA TGGCTCCTGG 26700
 ATCTCTGTTT TTTTCCGTCA CAACGGCTCC TCAACTGCAG CCCCCGGGT CGTCGCGCAC 26760
 TTTACTGACC ACAACAGCAG CATTGTGGTG CCCCAGTATT ACCTCCTCAA CAACTCACTC 26820
 TCTAAGCTCT GCTGCTCATA CCGGCACAAC GAGCGTCTC AGTTTACCTG CAAACAAGCT 26880
 GACGTCCCTA CCTGTACGA GCCCGGCAAG CCGCTCACCC TCCGCTCTC CCCCAGCTG 26940
 GGAAGTCCC ACCAAGCAGT CACTTGGTTT TTTCAAATG TACCCATAGC TACTGTTTAC 27000
 CGACCTTGGG GCAATGTAAC TTGGTTTTGT CCTCCCTCA TGTGTACCTT TAATGTCAGC 27060
 CTGAACTCCC TACTTATTTA CAACTTTTCT GACAAAACCG GGGGGCAATA CACAGCTCTC 27120
 ATGCACTCCG GACCTGCTTC CCTCTTTCAG CTCTTTAAGC CAACGACTTG TGTACCAAG 27180
 GTGGAGGACC CGCCGTATGC CAACGACCCG GCCTCGCCTG TGTGGCGCCC ACTGCTTTTT 27240
 GCCTTCGTCC TCTGCACCGG CTGCGCGGTG TTGTAAACCG CCTTCGGTCC ATCGATTCTA 27300
 TCCGGTACCC GAAAGCTTAT CTCAGCCCGC TTTTGGAGTC CCGAGCCCTA TACCACCTC 27360
 CACTAACAGT CCCCCATGG AGCCAGACGG AGTTCATGCC GAGCAGCAGT TTATCCTCAA 27420
 TCAGATTTC TGCCCAACA CTGCCCTCCA GCGTCAAAGG GAGGAACTAG CTTCCTTGT 27480

FIGURE 1P

CATGTTGCAT GCCTGTAAGC GTGGCCTCTT TTGTCCAGTC AAAACTTACA AGCTCAGCCT 27540
 CAACGCCTCG GCCAGCGAGC ACAGCCTGCA CTTTGAAAAA AGTCCCTCCC GATTACCCCT 27600
 GGTCAACACT CACGCCGGAG CTTCTGTGCG AGTGGCCCTA CACCACCAGG GAGCTTCCGG 27660
 CAGCATCCGC TGTTCTGTGTT CCCACGCCGA GTGCCTCCCC GTCTCTCTCA AGACCCTCTG 27720
 TGCCTTTAAC TTTTGTAGATT AGCTGAAAGC AAATATAAAA TGGTGTGCTT ACCGTAATTC 27780
 TGTTTTGACT TGTGTGCTTG ATTTCTCCCC CTGCGCCGTA ATCCAGTGCC CCTCTTCAAA 27840
 ACTCTCGTAC CCTATGCGAT TCGCATAGGC ATATTTTCTA AAAGCTCTGA AGTCAACATC 27900
 ACTCTCAAAC ACTTCTCCGT TGTAGGTTAC TTTCATCTAC AGATAAAGTC ATCCACCGGT 27960
 TAACATCATG AAGAGAAGTG TGCCCCAGGA CTTTAATCTT GTGTATCCGT ACAAGGCTAA 28020
 GAGGCCCAAC ATCATGCCGC CCTTTTTTGA CCGCAATGGC TTTGTTGAAA ACCAAGAAGC 28080
 CACGCTAGCC ATGCTTGTGG AAAAGCCGCT CACGTTTCGAC AAGGAAGGTG CGCTGACCCT 28140
 GGGCGTCGGA CGCGGCATCC GCATTAACCC CGCGGGGCTT CTGGAGACAA ACGACCTCGC 28200
 GTCCGCTGTC TTCCCACCGC TGGCCTCCGA TGAGGCCGGC AACGTCACGC TCAACATGTC 28260
 TGACGGGCTA TATACTAAGG ACAACAAGCT AGCTGTCAA GTAGGTCCCG GGCTGTCCCT 28320
 CGACTCCAAT AATGCTCTCC AGGTCCACAC AGGCGACGGG CTCACGGTAA CCGATGACAA 28380
 GGTGTCTCTA AATACCCAAG CTCCCCTCTC GACCACCAGC GCGGGCCTCT CCCTACTTCT 28440
 GGGTCCCAGC CTCCACTTAG GTGAGGAGGA ACGACTAACA GTAAACACCG GAGCGGGCCT 28500
 CCAAATTAGC AATAACGCTC TGGCCGTAAA AGTAGGTTCA GGTATCACCG TAGATGCTCA 28560
 AAACCAGCTC GCTGCATCCC TGGGGGACGG TCTAGAAAGC AGAGATAATA AACTGTTCGT 28620
 TAAGGCTGGG CCCGGACTTA CAATAACTAA TCAAGCTCTT ACTGTTGCTA CCGGGAACGG 28680
 CCTTCAGGTC AACCCGGAAG GGCAACTGCA GCTAAACATT ACTGCCGGTC AGGGCCTCAA 28740
 CTTTGCAAAC AACAGCCTCG CCGTGGAGCT GGGCTCGGGC CTGCATTTTC CCCCTGGCCA 28800
 AAACCAAGTA AGCCTTTATC CCGGAGATGG AATAGACATC CGAGATAATA GGGTGACTGT 28860
 GCCCGCTGGG CCAGGCCTGA GAATGCTCAA CCACCAACTT GCCGTAGCTT CCGGAGACGG 28920
 TTTAGAAGTC CACAGCGACA CCCTCCGGTT AAAGCTCTCC CACGGCCTGA CATTTGAAAA 28980
 TGGCGCCGTA CGAGCAAAAC TAGGACCAGG ACTTGGCACA GACGACTCTG GTCGGTCCGT 29040
 GGTTCGCACA GGTGAGGAC TTAGAGTTGC AAACGGCCAA GTCCAGATCT TCAGCGGAAG 29100
 AGGCACCGCC ATCGGCACTG ATAGCAGCCT CACTCTCAAC ATCCGGGCGC CCCTACAATT 29160
 TTCTGGACCC GCCTTGACTG CTAGTTTGCA AGGCAGTGGT CCGATTACTT ACAACAGCAA 29220
 CAATGGCACT TTCGGTCTCT CTATAGGCCC CGGAATGTGG GTAGACCAAA ACAGACTTCA 29280

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FIGURE 1Q

GGTAAACCCA GCGCTGGTT TAGTCTTCCA AGGAAACAAC CTTGTCCCAA ACCTTGCGGA 29340
TCCGCTGGCT ATTTCCGACA GCAAAATTAG TCTCAGTCTC GGTCCCGGCC TGACCCAAGC 29400
TTCCAACGCC CTGACTTTAA GTTTAGGAAA CGGGCTTGAA TTCTCCAATC AAGCCGTTGE 29460
TATAAAAGCG GGCCGGGGCT TACGCTTTGA GTCTTCCTCA CAAGCTTTAG AGAGCAGCCT 29520
CACAGTCGGA AATGGCTTAA CGCTTACCGA TACTGTGATC CGCCCCAACC TAGGGGACGG 29580
CCTAGAGGTC AGAGACAATA AAATCATTGT TAAGCTGGGC GCGAATCTTC GTTTTGAAAA 29640
CGGAGCCGTA ACCGCCGGCA CCGTTAACCC TTCTGCGCCC GAGGCACCAC CAACTCTCAC 29700
TGCAGAACCA CCCCTCCGAG CCTCCAATC CCATCTTCAA CTGTCCCTAT CGGAGGGCTT 29760
GGTTGTGCAT AACAACGCCC TTGCTCTCCA ACTGGGAGAC GGCATGGAAG TAAATCAGCA 29820
CGGACTTACT TTAAGAGTAG GCTCGGGTTT GCAAATGCGT GACGGCATT TAAACAGTTAC 29880
ACCCAGCGGC ACTCCTATTG AGCCAGACT GACTGCCCA CTGACTCAGA CAGAGAATGG 29940
AATCGGGCTC GCTCTCGGCG CCGGCTTGGA ATTAGACGAG AGCGCGCTCC AAGTAAAGG 30000
TGGGCCCCGC ATGCGCCTGA ACCCTGTAGA AAAGTATGTA ACCCTGCTCC TGGGTCCTGG 30060
CCTTAGTTTT GGGCAGCCGG CCAACAGGAC AAATTATGAT GTGCGCGTTT CTGTGGAGCC 30120
CCCATGGTT TTCGGACAGC GTGGTCAGCT CACATTTTAA GTGGGTCACG GACTACACAT 30180
TCAAAATTCC AACTTCAGC TCAATTTGGG ACAAGGCCTC AGAACTGACC CCGTCACCAA 30240
CCAGCTGGAA GTGCCCCCTC GTCAAGGTTT GGAAATTGCA GACGAATCCC AGGTTAGGGT 30300
TAAATTGGGC GATGGCCTGC AGTTTGATT ACAAGCTCGC ATCACTACCG CTCCTAACAT 30360
GGTCACTGAA ACTCTGTGGA CCGGAACAGG CAGTAATGCT AATGTTACAT GGCGGGGCTA 30420
CACTGCCCCC GGCAGCAAAC TCTTTTGTAG TCTCACTCGG TTCAGCACTG GTCTAGTTTT 30480
AGGAAACATG ACTATTGACA GCAATGCATC CTTTGGGCAA TACATTAACG CGGGACACGA 30540
ACAGATCGAA TGCTTTATAT TGTGAGCAA TCAGGGTAAC CTAAAAGAAG GATCTAACTT 30600
GCAAGGCACT TGGGAAGTGA AGAACAACCC CTCTGCTTCC AAAGCTGCTT TTTTGCCTTC 30660
CACCGCCCTA TACCCCATCC TCAACGAAAG CCGAGGGAGT CTTCCCTGGAA AAAATCTTGT 30720
GGGCATGCAA GCCATACTGG GAGGCGGGGG CACTTGCACT GTGATAGCCA CCCTCAATGG 30780
CAGACGCAGC AACAACTATC CCGCGGGCCA GTCCATAATT TTCGTGTGGC AAGAATTCAA 30840
CACCATAGCC CGCCAACCTC TGAACCACTC TACACTTACT TTTTCTTACT GGAATTAAAT 30900
AAGTTGGAAA TAAAGAGTTA AACTGAATGT TTAAGTGCAA CAGACTTTTA TTGGTTTTGG 30960
CTCACAACAA ATTACAACAG CATAGACAAG TCATACCGGT CAAACAACAC AGGCTCTCGA 31020
AAACGGGCTA ACCGCTCCAA GAATCTGTCA CGCAGACGAG CAAGTCCTAA ATGTTTTTTC 31080
ACTCTCTTCG GGGCCAAGTT CAGCATGTAT CGGATTTTCT GCTTACACCT TTTTAGACAG 31140

30960 31020 31080 31140 31200 31260 31320 31380 31440 31500 31560 31620 31680 31740 31800 31860 31920 31980 32040 32100 32160 32220 32280 32340 32400 32460 32520 32580 32640 32700 32760 32820 32880 32940 33000 33060 33120 33180 33240 33300 33360 33420 33480 33540 33600 33660 33720 33780 33840 33900 33960 34020 34080 34140 34200 34260 34320 34380 34440 34500 34560 34620 34680 34740 34800 34860 34920 34980 35040 35100 35160 35220 35280 35340 35400 35460 35520 35580 35640 35700 35760 35820 35880 35940 36000 36060 36120 36180 36240 36300 36360 36420 36480 36540 36600 36660 36720 36780 36840 36900 36960 37020 37080 37140 37200 37260 37320 37380 37440 37500 37560 37620 37680 37740 37800 37860 37920 37980 38040 38100 38160 38220 38280 38340 38400 38460 38520 38580 38640 38700 38760 38820 38880 38940 39000 39060 39120 39180 39240 39300 39360 39420 39480 39540 39600 39660 39720 39780 39840 39900 39960 40020 40080 40140 40200 40260 40320 40380 40440 40500 40560 40620 40680 40740 40800 40860 40920 40980 41040 41100 41160 41220 41280 41340 41400 41460 41520 41580 41640 41700 41760 41820 41880 41940 42000 42060 42120 42180 42240 42300 42360 42420 42480 42540 42600 42660 42720 42780 42840 42900 42960 43020 43080 43140 43200 43260 43320 43380 43440 43500 43560 43620 43680 43740 43800 43860 43920 43980 44040 44100 44160 44220 44280 44340 44400 44460 44520 44580 44640 44700 44760 44820 44880 44940 45000 45060 45120 45180 45240 45300 45360 45420 45480 45540 45600 45660 45720 45780 45840 45900 45960 46020 46080 46140 46200 46260 46320 46380 46440 46500 46560 46620 46680 46740 46800 46860 46920 46980 47040 47100 47160 47220 47280 47340 47400 47460 47520 47580 47640 47700 47760 47820 47880 47940 48000 48060 48120 48180 48240 48300 48360 48420 48480 48540 48600 48660 48720 48780 48840 48900 48960 49020 49080 49140 49200 49260 49320 49380 49440 49500 49560 49620 49680 49740 49800 49860 49920 49980 50040 50100 50160 50220 50280 50340 50400 50460 50520 50580 50640 50700 50760 50820 50880 50940 51000 51060 51120 51180 51240 51300 51360 51420 51480 51540 51600 51660 51720 51780 51840 51900 51960 52020 52080 52140 52200 52260 52320 52380 52440 52500 52560 52620 52680 52740 52800 52860 52920 52980 53040 53100 53160 53220 53280 53340 53400 53460 53520 53580 53640 53700 53760 53820 53880 53940 54000 54060 54120 54180 54240 54300 54360 54420 54480 54540 54600 54660 54720 54780 54840 54900 54960 55020 55080 55140 55200 55260 55320 55380 55440 55500 55560 55620 55680 55740 55800 55860 55920 55980 56040 56100 56160 56220 56280 56340 56400 56460 56520 56580 56640 56700 56760 56820 56880 56940 57000 57060 57120 57180 57240 57300 57360 57420 57480 57540 57600 57660 57720 57780 57840 57900 57960 58020 58080 58140 58200 58260 58320 58380 58440 58500 58560 58620 58680 58740 58800 58860 58920 58980 59040 59100 59160 59220 59280 59340 59400 59460 59520 59580 59640 59700 59760 59820 59880 59940 60000 60060 60120 60180 60240 60300 60360 60420 60480 60540 60600 60660 60720 60780 60840 60900 60960 61020 61080 61140 61200 61260 61320 61380 61440 61500 61560 61620 61680 61740 61800 61860 61920 61980 62040 62100 62160 62220 62280 62340 62400 62460 62520 62580 62640 62700 62760 62820 62880 62940 63000 63060 63120 63180 63240 63300 63360 63420 63480 63540 63600 63660 63720 63780 63840 63900 63960 64020 64080 64140 64200 64260 64320 64380 64440 64500 64560 64620 64680 64740 64800 64860 64920 64980 65040 65100 65160 65220 65280 65340 65400 65460 65520 65580 65640 65700 65760 65820 65880 65940 66000 66060 66120 66180 66240 66300 66360 66420 66480 66540 66600 66660 66720 66780 66840 66900 66960 67020 67080 67140 67200 67260 67320 67380 67440 67500 67560 67620 67680 67740 67800 67860 67920 67980 68040 68100 68160 68220 68280 68340 68400 68460 68520 68580 68640 68700 68760 68820 68880 68940 69000 69060 69120 69180 69240 69300 69360 69420 69480 69540 69600 69660 69720 69780 69840 69900 69960 70020 70080 70140 70200 70260 70320 70380 70440 70500 70560 70620 70680 70740 70800 70860 70920 70980 71040 71100 71160 71220 71280 71340 71400 71460 71520 71580 71640 71700 71760 71820 71880 71940 72000 72060 72120 72180 72240 72300 72360 72420 72480 72540 72600 72660 72720 72780 72840 72900 72960 73020 73080 73140 73200 73260 73320 73380 73440 73500 73560 73620 73680 73740 73800 73860 73920 73980 74040 74100 74160 74220 74280 74340 74400 74460 74520 74580 74640 74700 74760 74820 74880 74940 75000 75060 75120 75180 75240 75300 75360 75420 75480 75540 75600 75660 75720 75780 75840 75900 75960 76020 76080 76140 76200 76260 76320 76380 76440 76500 76560 76620 76680 76740 76800 76860 76920 76980 77040 77100 77160 77220 77280 77340 77400 77460 77520 77580 77640 77700 77760 77820 77880 77940 78000 78060 78120 78180 78240 78300 78360 78420 78480 78540 78600 78660 78720 78780 78840 78900 78960 79020 79080 79140 79200 79260 79320 79380 79440 79500 79560 79620 79680 79740 79800 79860 79920 79980 80040 80100 80160 80220 80280 80340 80400 80460 80520 80580 80640 80700 80760 80820 80880 80940 81000 81060 81120 81180 81240 81300 81360 81420 81480 81540 81600 81660 81720 81780 81840 81900 81960 82020 82080 82140 82200 82260 82320 82380 82440 82500 82560 82620 82680 82740 82800 82860 82920 82980 83040 83100 83160 83220 83280 83340 83400 83460 83520 83580 83640 83700 83760 83820 83880 83940 84000 84060 84120 84180 84240 84300 84360 84420 84480 84540 84600 84660 84720 84780 84840 84900 84960 85020 85080 85140 85200 85260 85320 85380 85440 85500 85560 85620 85680 85740 85800 85860 85920 85980 86040 86100 86160 86220 86280 86340 86400 86460 86520 86580 86640 86700 86760 86820 86880 86940 87000 87060 87120 87180 87240 87300 87360 87420 87480 87540 87600 87660 87720 87780 87840 87900 87960 88020 88080 88140 88200 88260 88320 88380 88440 88500 88560 88620 88680 88740 88800 88860 88920 88980 89040 89100 89160 89220 89280 89340 89400 89460 89520 89580 89640 89700 89760 89820 89880 89940 90000 90060 90120 90180 90240 90300 90360 90420 90480 90540 90600 90660 90720 90780 90840 90900 90960 91020 91080 91140 91200 91260 91320 91380 91440 91500 91560 91620 91680 91740 91800 91860 91920 91980 92040 92100 92160 92220 92280 92340 92400 92460 92520 92580 92640 92700 92760 92820 92880 92940 93000 93060 93120 93180 93240 93300 93360 93420 93480 93540 93600 93660 93720 93780 93840 93900 93960 94020 94080 94140 94200 94260 94320 94380 94440 94500 94560 94620 94680 94740 94800 94860 94920 94980 95040 95100 95160 95220 95280 95340 95400 95460 95520 95580 95640 95700 95760 95820 95880 95940 96000 96060 96120 96180 96240 96300 96360 96420 96480 96540 96600 96660 96720 96780 96840 96900 96960 97020 97080 97140 97200 97260 97320 97380 97440 97500 97560 97620 97680 97740 97800 97860 97920 97980 98040 98100 98160 98220 98280 98340 98400 98460 98520 98580 98640 98700 98760 98820 98880 98940 99000 99060 99120 99180 99240 99300 99360 99420 99480 99540 99600 99660 99720 99780 99840 99900 99960 100020 100080 100140 100200 100260 100320 100380 100440 100500 100560 100620 100680 100740 100800 100860 100920 100980 101040 101100 101160 101220 101280 101340 101400 101460 101520 101580 101640 101700 101760 101820 101880 101940 102000 102060 102120 102180 102240 102300 102360 102420 102480 102540 102600 102660 102720 102780 102840 102900 102960 103020 103080 103140 103200 103260 103320 103380 103440 103500 103560 103620 103680 103740 103800 103860 103920 103980 104040 104100 104160 104220 104280 104340 104400 104460 104520 104580 104640 104700 104760 104820 104880 104940 105000 105060 105120 105180 105240 105300 105360 105420 105480 105540 105600 105660 105720 105780 105840 105900 105960 106020 106080 106140 106200 106260 106320 106380 106440 106500 106560 106620 106680 106740 106800 106860 106920 106980 107040 107100 107160 107220 107280 107340 107400 107460 107520 107580 107640 107700 107760 107820 107880 107940 108000 108060 108120 108180 108240 108300 108360 108420 108480 108540 108600 108660 108720 108780 108840 108900 108960 109020 109080 109140 109200 109260 109320 109380 109440 109500 109560 109620 109680 109740 109800 109860 109920 109980 110040 110100 110160 110220 110280 110340 110400 110460 110520 110580 110640 110700 110760 110820 110880 110940 111000 111060 111120 111180 111240 111300 111360 111420 111480 111540 111600 111660 111720 111780 111840 111900 111960 112020 112080 112140 112200 112260 112320 112380 112440 112500 112560 112620 112680 112740 112800 112860 112920 112980 113040 113100 113160 113220 113280 113340 113400 113460 113520 113580 113640 113700 113760 113820 113880 113940 114000 114060 114120 114180 114240 114300 114360 114420 114480 114540 114600 114660 114720 114780 114840 114900 114960 115020 115080 115140 115200 115260 115320 115380 115440 115500 115560 115620 115680 115740 115800 115860 115920 115980 116040 116100 116160 116220 116280 116340 116400 116460 116520 116580 116640 116700 116760 116820 116880 116940 117000 117060 117120 117180 117240 117300 117360 117420 117480 117540 117600 117660 117720 117780 117840 117900 117960 118020 118080 118140 118200 118260 118320 118380 118440 118500 118560 118620 118680 118740 118800 118860 118920 118980 119040 119100 119160 119220 119280 119340 119400 119460 119520 119580 119640 119700 119760 119820 119880 119940 120000 120060 120120 120180 120240 120300 120360 120420 120480 120540 120600 120660 120720 120780 120840 120900 120960 121020 121080 121140 121200 121260 121320 121380 121440 121500 121560 121620 121680 121740 121800 121860 121920 121980 122040 122100 122160 122220 122280 122340 122400 122460 122520 122580 122640 122700 122760 122820 122880 122940 123000 123060 123120 123180 123240 123300 123360 123420 123480 123540 123600 123660 123720 123780 123840 123900 123960 124020 124080 124140 124200 124260 124320 124380 124440 124500 124560 124620 124680 124740 124800 124860 124920 124980 125040 125100 125160 125220 125280 125340 125400 125460 125520 125580 125640 125700 125760 125820 125880 125940 126000 126060 126120 126180 126240 126300 126360 126420 126480 126540 126600 126660 126720 126780 126840 126900 126960 127020 127080 127140 127200 127260 127320 127380 127440 127500 127560 127620 127680 127740 127800 127860 127920 127980 128040 128100 128160 128220 128280 128340 128400 128460 128520 128580 128640 128700 128760 128820 128880 128940 129000 129060 129120 129180 129240 129300 129360 129420 129480 129540 129600 129660 129720 129780 129840 129900 129960 130020 130080 130140 130200 130260 130320 130380 130440 130500 130560 130620 130680 130740 130800 130860 130920 130980 131040 131100 131160 131220 131280 131340 131400 131460 131520 131580 131640 131700 131760 131820 131880 131940 132000 132060 132120 132180 132240 132300 132360 132420 132480 132540 132600 132660 132720 132780 132840 132900 132960 133020 133080 133140 133200 133260 133320 133380 133440 133500 133560 133620 133680 133740 133800 133860 133920 133980 134040 134100 134160 134220 134280 134340 134400 134460 134520 134580 134640 134700 134760 134820 134880 134940 135000 135060 135120 135180 135240 135300 135360 1

FIGURE 1R

CAGTTTACAC TCATTTCCGT TAAAGGATTA CAACTGCGGC ATATGAGAAT TAAGTATATA 31200
 CAACTATTGC CCTTTACCCA CAAACACTCC CCCCACGGGG TGCACCTGAT GTAGCTGCCC 31260
 TCCTCAATCA TGAAAGTGCT ATTAAAGTAA ATTAAATGAA CATTATTAC ATACAEGCTT 31320
 CCCACATAGG CCAAAAAAAC AGAGGACAAC TTTGACAGCT CCCGCCTGAA ATACCAATAC 31380
 ACTCTATCAA ACTGCGCACC GTGCACGCAC TGCTTTACCA GGCCTTGAAA GTAAACAGCG 31440
 GCGGACCGAC ACTGCAAGCT TCTAGGCTTT GGGCAGTGGC AGTGAATATA TAGCCACTCC 31500
 TCCCCATGCA CGTAGTAGGA ACGCCGCTTC CCGGGAATCA CAAATGACAA GCAGTAGTCA 31560
 CAGAGGCAAC TAGTCAAGTG AGCGTCTCC TGAGGCATGA TTACCTTCCA TGGAAATGGGC 31620
 CAGTGAATCA TAGTGGCAAA GCCAGCTGCA TCTGGAGCGC TGCGAACCTT GGCTACATGT 31680
 GGTGATTGGC GACGCAGATG GAGACAGGAC CTTGCATTCT GAAGACCACT GCAACAGCTT 31740
 CTGCGTACGC TTGTATTTAC AGTACATAAA AAAGCACTTT TGCCACAGAG CGGTCTTACT 31800
 CAACCGACAG CTTTTTCTT TCTGACGCTG CCTTCTGCTA CTCAGGTAGT ACAAGTCCAA 31860
 AAGAGCCAAA CGGACACTCA AATCCGGGTT ATCTCGATGC TGAAGCCAGA GTCCAAAAGT 31920
 AACCACGCTA AAAGCCTGCA TCCATATTTT GTAACGCTG TAACTCCATC CCAGAGCCGG 31980
 GCACCGCACT TGGTCCACCA TAGCTGCAAA CAAACGGGAC AATTAAGGAA AGTAAAATGA 32040
 GCGCTGGGGG CGGACTCTTC TCCCGTTCGT AGGAAACAGC CACGTATCAA ACACCCTTTT 32100
 CAACACTGGC TCTCCAGCCG CTA CTCTCGTTG AATTAATTG TCCCTGTGCT CAAACAACCC 32160
 ACACTGGTAA CGGTGGTGC TAGGCAAACA TGTCAAATAG CACATAATCA TTTCTTTCAC 32220
 TTTAAGCAAA CATCGACTAG CAGACACTTC ACTTAATTCA GCACAGTCAT AGCAAGGAAT 32280
 GATTATACAC TTGTCACTA ATCCACTGCC CATGTACACA TTGCCCCAGG CAAAAGTGGG 32340
 CAGGGACTTT AAGAGCTGAT TGCTCGCCCC GACATAGTTG GTAAAATACA GCAAATGCAC 32400
 CTTGTTAACA TACACACTCC CCACATAGTA AATATACCGA GTAGACAGCT TAGAAAGCTC 32460
 CCTCCGAAAA AATGGGAACA TGGTATCAAA GGCAGTGCCC GCAACACACA TCTTGAACAG 32520
 ATCCATCAGG ATAGTAGCTC GACACAGCCC CTGCAGACTT TGGTCAGCTT GCTTGCTGCA 32580
 GCAGTACACT CTCCACGTAG CATCTCCGCT GATGAAGTAT TCGCTATCGC AGCGACCAAA 32640
 AATACAGCAA TCACAAGGCA GACGCAACAG TCTTTCATCC AGACTGTTCA TGAGAGGCTT 32700
 TAGAGGTATG GGAAAAATC CAAAGTGCTC AAAATAAGCA GCGCTGGGCT CATTCTGACA 32760
 TTCCCCAAC ATGCTGAGTC GAACCATAGC ACAGTCATAC AAACCTAGCT GTCGGAATTG 32820
 ATCTTCCATG ATTGAGTTTC TACTGAGATA TTATCTCAAA CTTAAACTG TTGCTCACCA 32880
 ACTCTATGCG AACTTGCTCA AGAAGCTCTT GGTTTAGGGC GACCTCTTCT GGTGTCGGA 32940

0987424 053104
 12150 2124860

[illegible]

AGTTACTGAT	GGAACAACAA	GCGCCGCCCA	ACTTCAAATT	TCCAGCCGAC	CCAATCCAGT	33000
GGTCTCTCAA	CTCACGCGCA	CAAGCTACTA	TGCAGTCCTC	ACTTTCGTCA	AAGTCAGCAG	33060
CGCCTATAGA	AATCAACACA	CTGAGTCCAC	CATCTTCAGC	TTTTAAGGGA	TAACAGCTGA	33120
TAGCAAAGTG	GTTCTGAGAC	CACGGCAAAG	CACGTAGGAA	TTGCTGTAA	GTTAATTTCC	33180
AAACACCGCT	GAAGCAGCTC	TATGGTTGCT	GGACATATGT	CCTCTGCATA	GAAGCTTTGA	33240
ACATAACTTA	AGACAGGGCC	GGGCACATGA	AACACAAACA	GAGAACTATA	CACAATCTGG	33300
GCCATGATCA	CTCACATTTA	AATAGCAGCT	GAAAAGTGCG	TTTCTTCACT	TGGGAGCAAA	33360
ATTAGCGAAG	ACTGTGCCAG	AATGCTCACG	TCGAAAGGCG	GTGGGTCTCG	CAGAGGCAGG	33420
TTCGGAGCTC	TAATTAAACA	CAGGTGGGTA	ATCCAGTCAA	CGATGAGGAC	CAGCTGAAAA	33480
GTGGCTTTCT	TCACTTGGGA	GCAAAATTAG	CGAAGACTGT	GCCAGAATGC	TCACGTCGAA	33540
AGGCGGTGGG	TCTCGCAGAG	GCAGGTTCCG	AGCTCTAATT	AAACACAGGT	GGGTAATCCA	33600
GTCAACGATG	AGGACTTTTA	AAAAACTGTC	TAAAACTGAA	GCAGTTAAGT	TAGAGGCAGA	33660
CACAGAAAAA	ACTACAGTTA	AACTATCAGT	TGCTGAAATT	GAAAAGCACC	CAATAATTAT	33720
GCGCGAGGGC	ACAGGCAATA	AAAGTGTTAG	CCCCTCGGCT	AACGCGTCAG	CTAAAAAATC	33780
TTTAGCTAAA	GTATCTACTG	GCCGCGTGGT	AAAAGTTTGA	ATATAATTTA	CGACAGGAGC	33840
TGGCAAGTGA	AACTCCACAA	AAAAAGTAAA	TGGCTGCACA	CACGCCATTA	TTTTGAAAT	33900
AAGAAGTACT	CACAAAATCA	GCTGGAGCTG	CCGCAAGTGA	AAAAGACCAG	CTGAAGTCTT	33960
ATTTTAAACT	GTAAATATA	AAAAAAAAAA	TAGGGCGTGA	ACAAAAATGA	GAAATAATA	34020
CCGATATGA	CTATTAAGGG	CGTACACTGA	AACTGGGTAA	TATTTGAGAA	AAAGATTAAG	34080
ATAATAGCTG	AACAAATGTT	GTGTGCAGAA	CACGGAAGAA	TGGTGGCGAA	AAAAAAAAAC	34140
AGTGTAAGCA	CATGGCGCGC	ACGTACTTCC	GTGAGAAAAA	TTAAAAAAT	TTACCCAGTA	34200
TAAGGTGCGT	CATTAGACCC	GCCTTGTGGC	GCGGTTGTAG	CCCTGCCCTT	TGCCCCGCC	34260
CGCGCGCCGC	CCCGCGCGCC	GCCCCGCCG	CCCTCAGCCC	CGCCCAGCGC	CGCCGCCTCC	34320
GCGACGCGCT	CCGCCCCACA	GTTACGTCAG	CACGCCACGC	TCGCCGTCGT	TGCGTCATAA	34380
ATGACGTGGC	AAAAATGATT	GGCAGTTGGA	CCGCTGCCAT	CAGTGACTG	TAGATTATTG	34440
ATGATG						34446

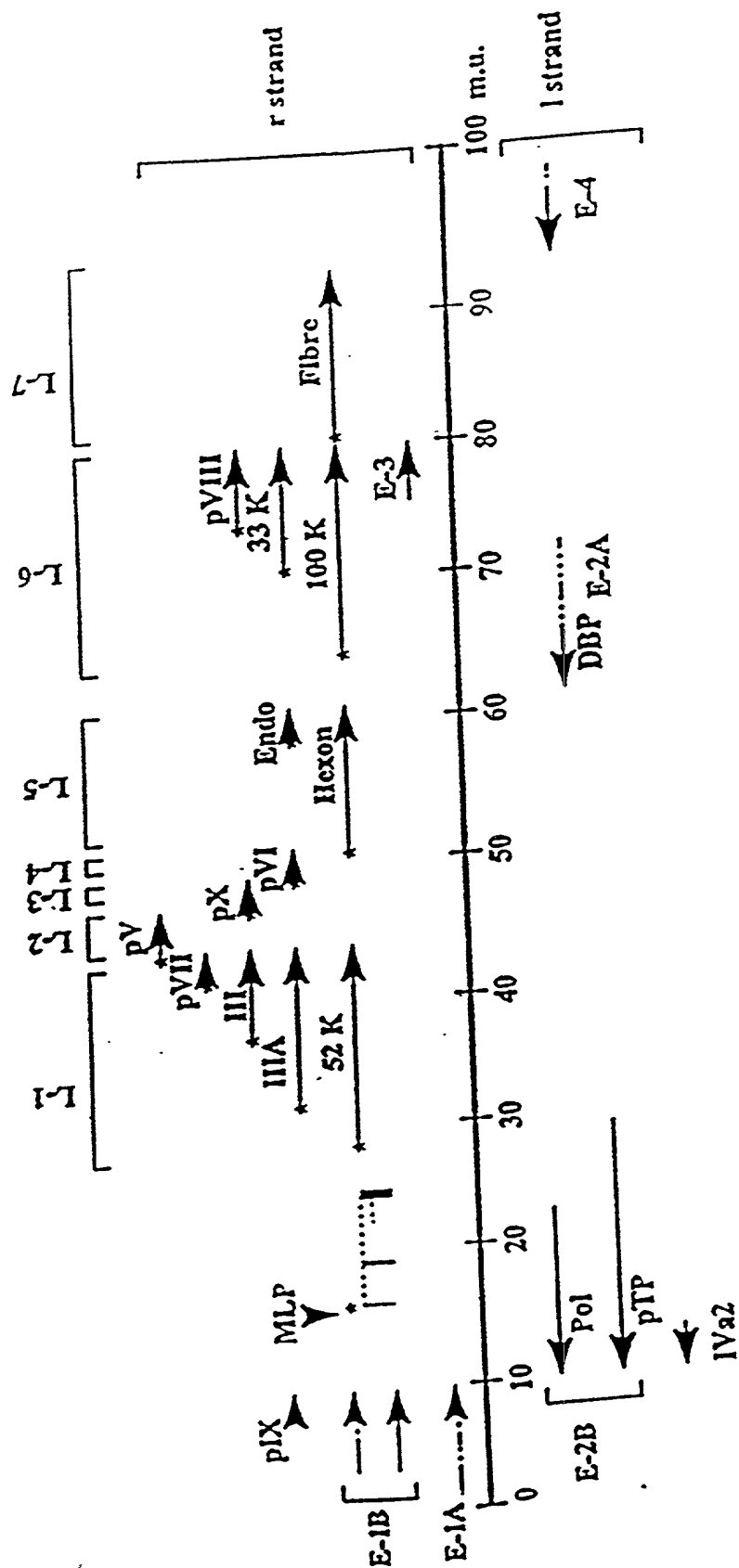
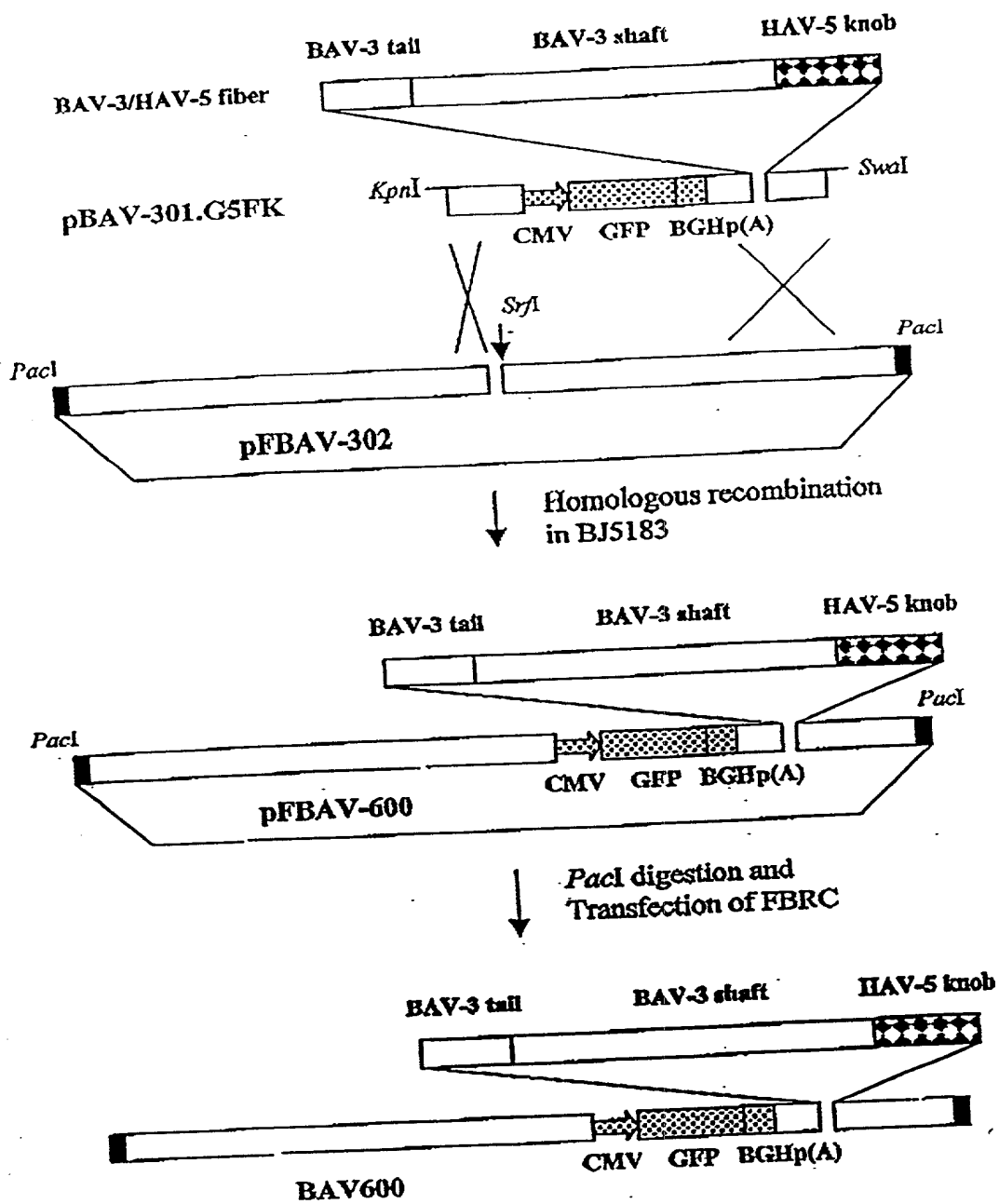
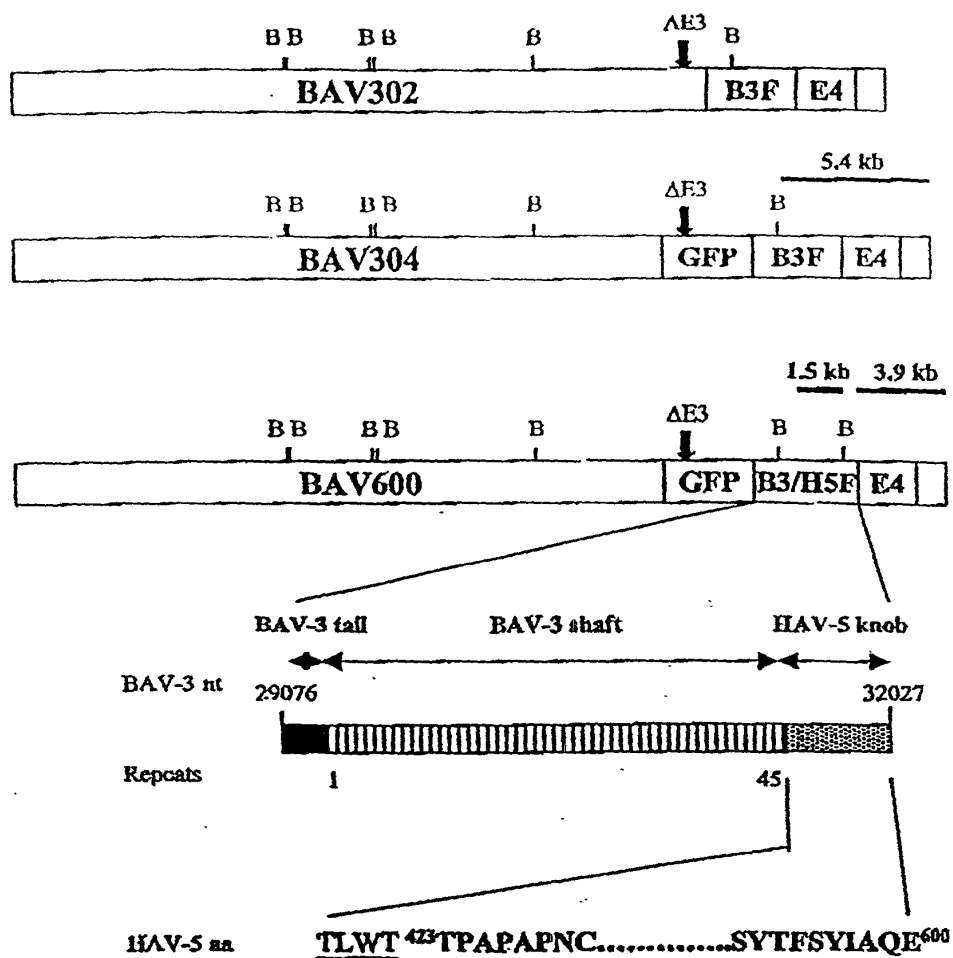


FIGURE 2



Construction of BAV600

FIGURE 3



Characterization of BAV600

FIGURE 4

Analysis of BAV600 by Restriction Enzyme *Bgl*III Digestion

1 2 3 1 2 3

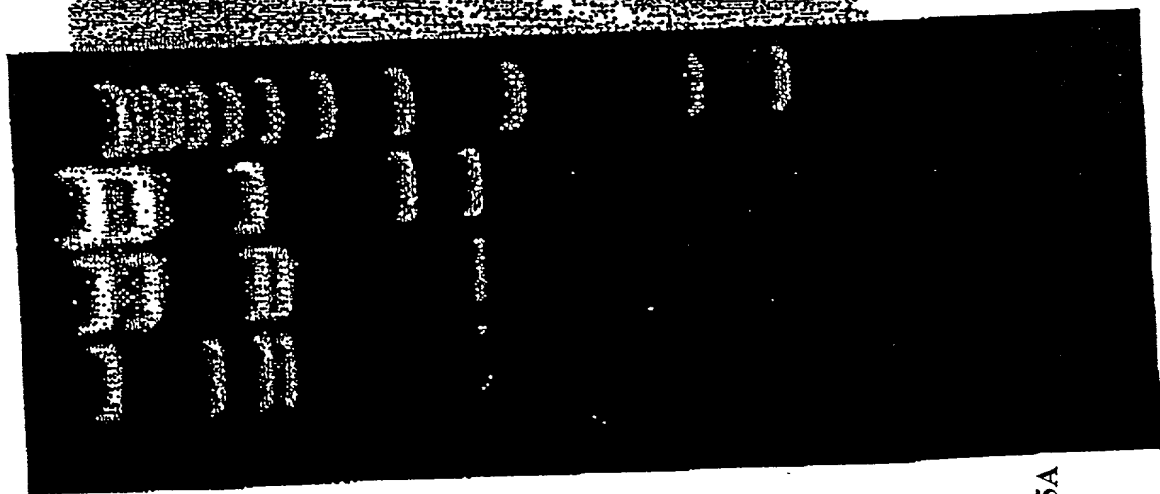


FIG. 5A

Lane 1. BAV302
2. BAV304
3. BAV600

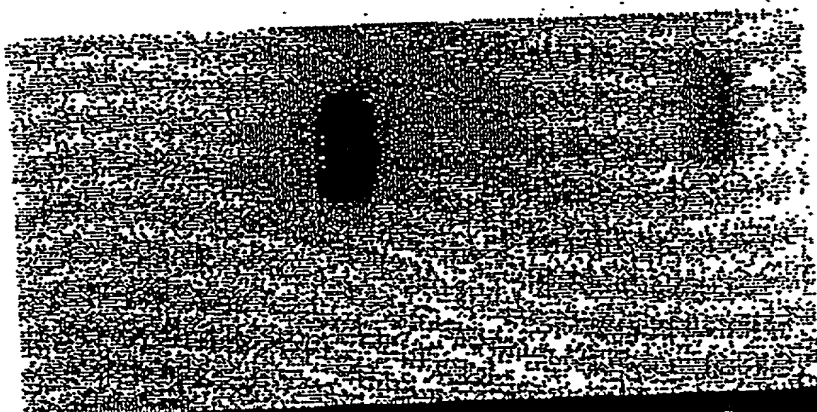


FIG. 5B

Expression of HAV-5 Fiber Knob by BAV600

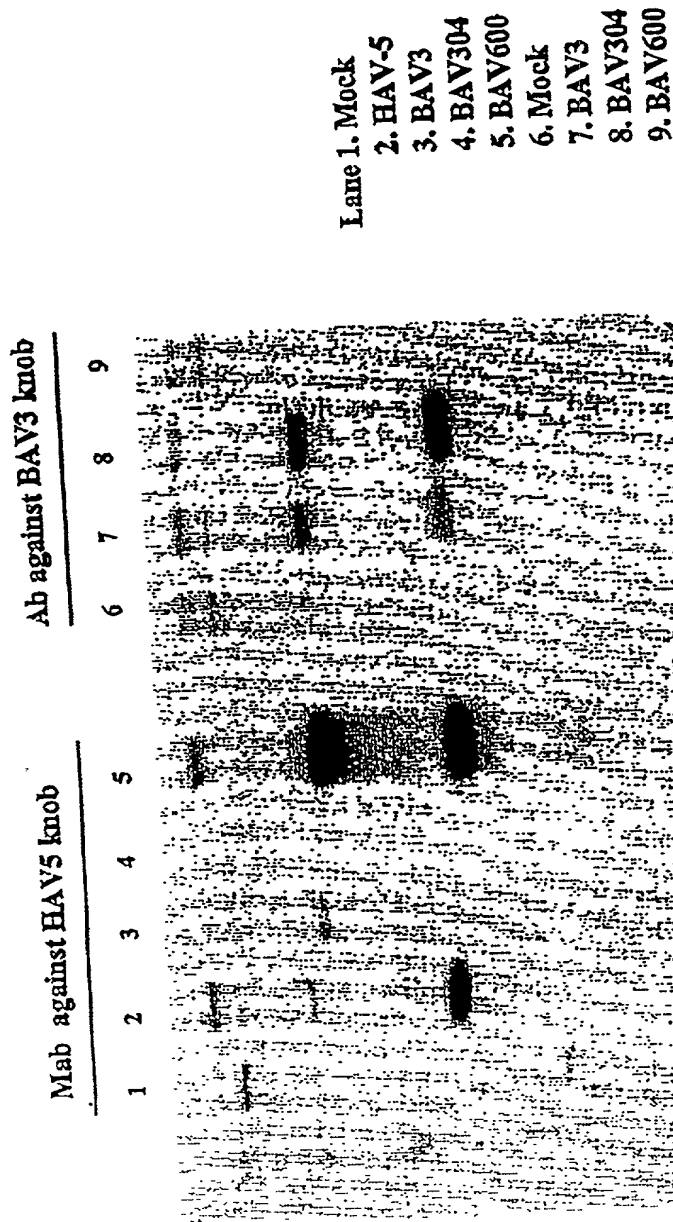
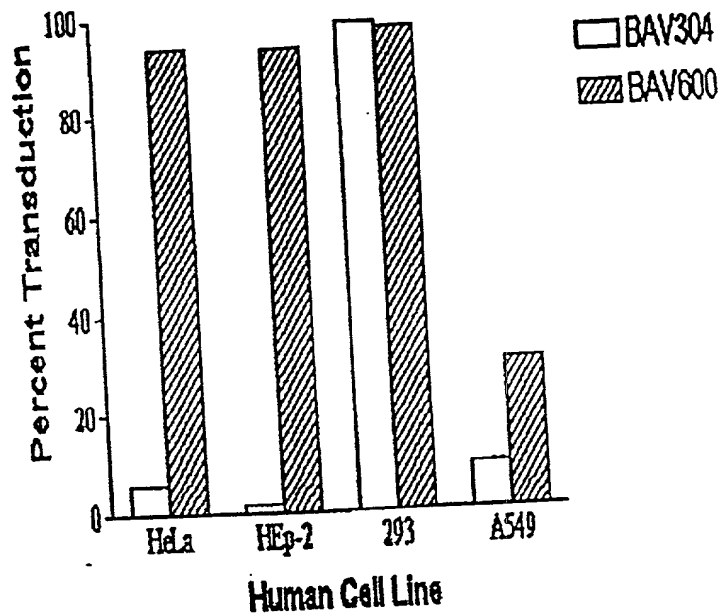
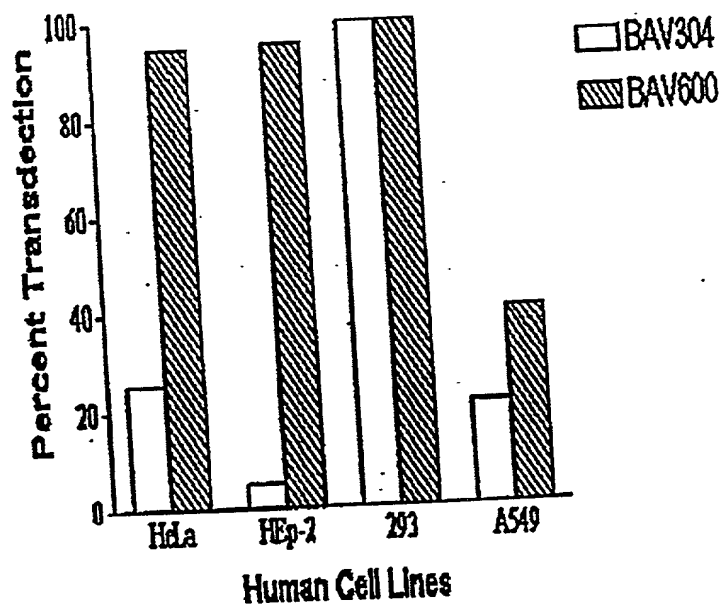


FIGURE 6

7A.



7B.



Transduction of Human Cell Lines by BAV600.
A. MOI of 1. B. MOI of 5.

FIGURE 7A-7B

FACS Analysis of BAV304 and BAV600 Transduction of Human Cells

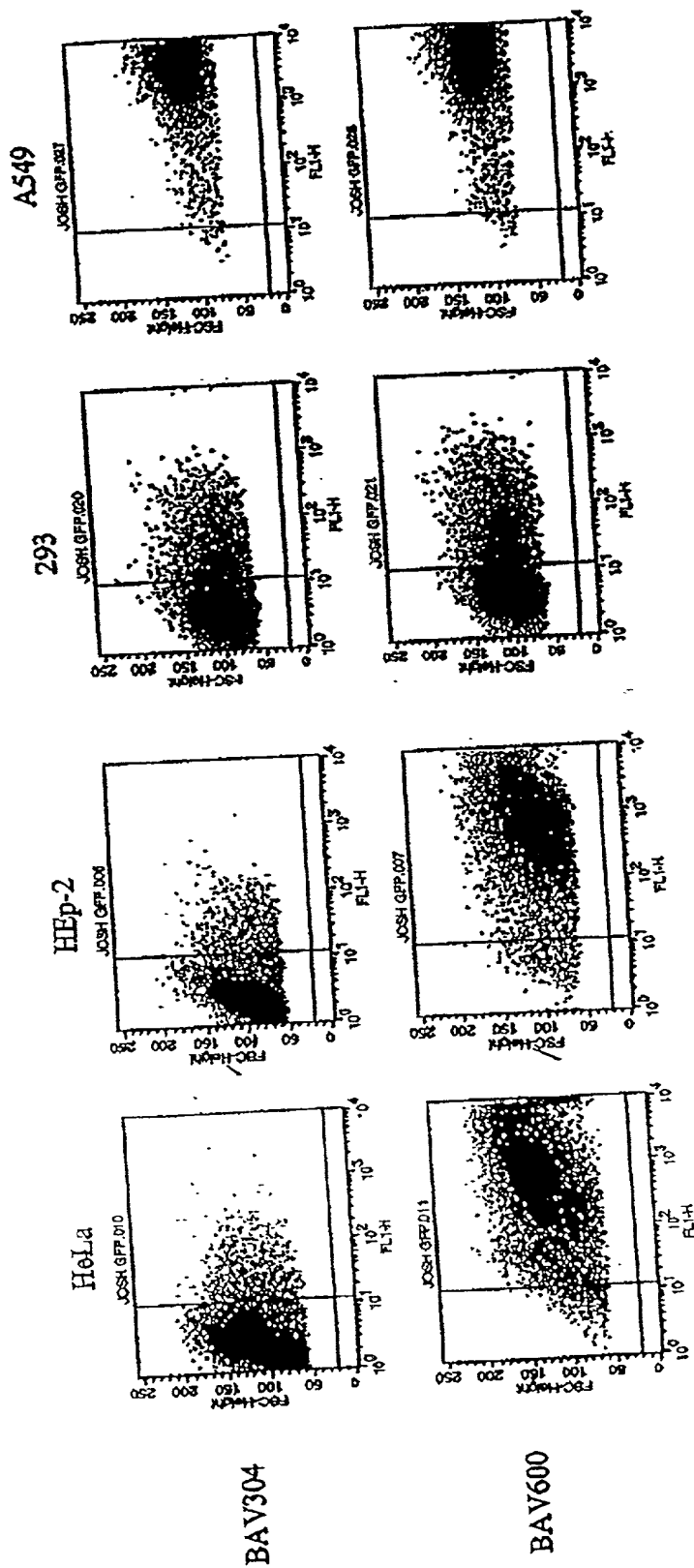


FIGURE 8

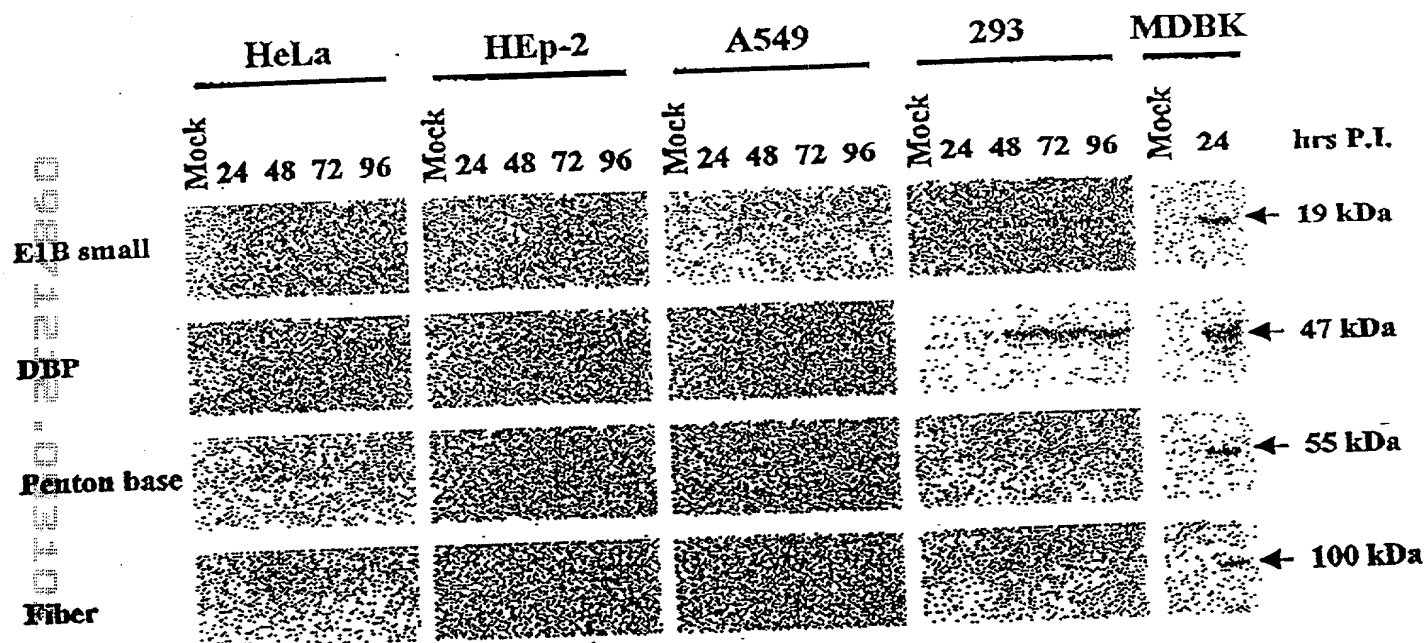


FIGURE 9

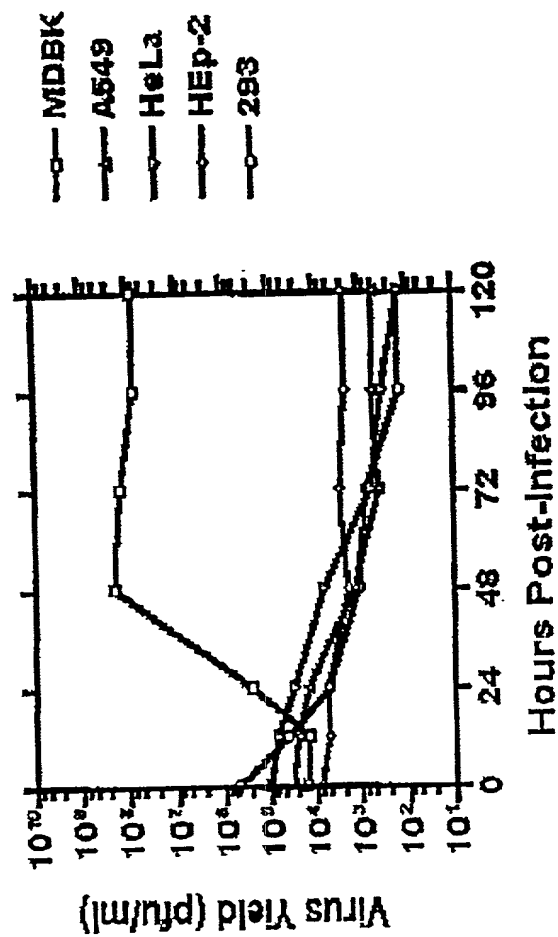


FIGURE 10

	BAV-3	Virus	BAV600
Normal Rabbit Serum	<1:50		<1:50
Rabbit Antiserum against BAV3 FK	1:800		<1:50
Monoclonal Ab against BHV gD (2C8)	<1:50		<1:50
Monoclonal Ab against FAd5 FK (1D6.14)	<1:50		1:3,200

FIGURE 11

	10	20	30	40	
MSVSSCSCPSAPTIFMLLQMKRARPSEDTFNPVYPYDTET					40
GPPTVPFLTTPPFVSPNGFQESPPGVLSLRLSEPLVTSNGM					80
LALKMGNGLSLDEAGNLTSONVTTVSPPLKKTKSNINLEI					120
SAPLTVTSEALTVA AAAAPLMVAGNTLTMSQAPLTVHDSK					160
LSIATQGPLTVSEGKLALOTSGPLTTTDSSTLTITASPPL					200
	210	220	230	240	
TTATGSLGIDLKEPIYTQNGKLGLKYGAPLHVTDDLNTLT					240
VATGPGVTINNTSLOTKVTGALGFDSQGNMQLNVAGGLRI					280
DSQNRRLILDVSYPFDAQNQLNLR LGQGPLFINSAHNLDI					320
NYNKGLYLFTASNNSKKLEVNLS TAKGLMFDATAIAINAG					360
DGLEFGSPNAPNTNPLKTKIGHGLEFDSNKAMVPKLGTGL					400
	410	420	430	440	
SFDSTGAITVGKNNDKLT LWTPAPSPNCRLNAEKDAKL					440
TLVLTKCGSQILATVSVLAVKGS LAPISGTVQSAHLIIRF					480
DENGVL LNNSFLDPEYWNFRNGDLTEGTAYTNAVGFMPNL					520
SAYPKSHGKTAKSNIVSQVYLN GDKTKPVTLTITLNGTQE					560
TGDTTPSAYSMSFSWDWSGHNYINEIFATSSYTFSYIAQE					600

FIGURE 12

10 20 30 40
 MKRSVPQDFNLVYPYKAKRPNIMPPFFDRNGFVENQEATL 40
 AMLVEKPLTFDKEGALT LGVGRGIRINPAGLLETNDLASA 80
 VFPPLASDEAGNVTLNMSDGLYTKDNKLAVKVGPGLSLDS 120
 NNALQVHTGDGLTVTDDKVS LNTQAPLSTTSAGLSLLLGP 160
 SLHLGEEERLTVNTGAGLQISNNALAVKVGSGITVDAQNQ 200
 210 220 230 240
 LAASLGDGLES RDNKT VVKAGPGLTITNQALTVATGNGLO 240
 VNPEGQLQLNITAGQGLNFANNSLAVELGSGLHFPPGQNO 280
 VSLYPGDGIDIRDNRVTVPAGPGLRMLNHQLAVASGDGLE 320
 VHSDTLRLKLSHGLTFENGAVRAKLGPGGLGTDDSGRSVVR 360
 TGRGLRVANGQVQIFSGRGT AIGTSSSLTLNIRAPLOFSG 400
 410 420 430 440
 PALTASLQSGPITYNSNNGTFGLSIGPGMWVDQNRLOVN 440
 PGAGLVFQGNNLVPNLADPLAISDSKISLSLGPGLTQASN 480
 ALTLSLGNGLEFSNQAVAIKAGRGLRFESSSQALESSLTV 520
 GNGLTLTDTVIRPNLGDGLEVRDNKIIVKLGANLRFENGA 560
 VTAGTVNPSAPEAPPTLTAEPLRASNSHLQLSLSEGLVV 600
 610 620 630 640
 HNNALALQLGDGMEVNQHGLTLRVGSGLQMRDGILTVTPS 640
 GTPIEPRLTAPLTOTENGIGLALGAGLELDESALQVKVGP 680
 GMRLNPVEKYVTLLLGPGLSFGQPANRTNYDVRVSVEPPM 720
 VFGQRGQLTFLVGHGLHIQNSKLQLNLGQGLRTDPVTNQL 760
 EVPLGQGLEIADESQVRVKLGDGLQFDSQARITTAPNMVT 800
 810 820 830 840
 ETLWTGTGSNANVTWRGYTAPGSKLFLSLTRFSTGLVLGN 840
 MTIDSNASFGQYINAGHEQIECFILLDNQGNLKEGSNLOG 880
 TWEVKNNPSASKAAFLPSTALYPILNESRGSPLPGKNLVGM 920
 QAILGGGGTCTVIATLNGRRSNNYPAGQSIIFVWQEFNTI 960
 ARQPLNHSTLTFSYWT 976

FIGURE 13

10 20 30 40
 MKRARWDPVYPFSEERLVPLPPFIEAGKGLKSEGLILSLN 40
 FTDPITINQTGFLTVKLGDGIFINGEGGLSSTAPKVKVPL 80
 TVSDETLQLLLSNSLTTESDSLALKOPQLPLKINDEGSLV 120
 LNLNTPNLQNERLSLNVSNPLKIAADSLTINLKEPLGLQ 160
 NESLGLNLSDPMNITPEGNLGIKLNPMKVEESSLALNYK 200
 210 220 230 240
 NPLAISNDALSINIANPLTVNTSGSLGISYSTPLRISNNA 240
 LSLFIGKPLGLGTDGSLTVNLTRPLVCRQNTLAINYSAPL 280
 VSLQDNLTLSYAQPLTVSDNSRLSLNSPLNTNSDGKLSV 320
 NYSNPLVVTDNLTLNVKKPVMINNTGNVDLSFTAPIKLN 360
 DAEQLTLETTEPLEVADNALKLKLKGLTVSNNALTLNLG 400
 410 420 430 440
 NGLTFQQGLLOIKTNSSLGFNASGELSTATKQGTITVNFL 440
 STTPIAFGWQIIPTTVAFIYILSGTQFTQSPVTSLSGFQP 480
 PQDFLDFFVLSPFVTSVTQIVGNDVKVIGLTISKNOSTIT 520
 MKFTSPLAENVPVSMFTAHQFRQ. 544

FIGURE 14

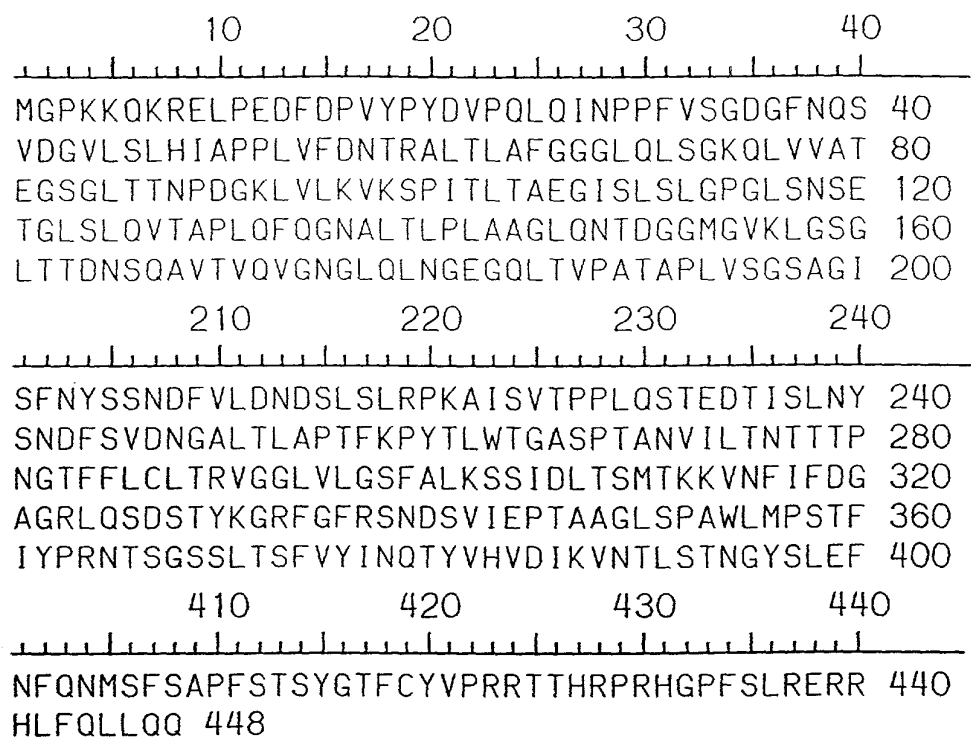


FIGURE 15

10 20 30 40

MKRTRRALPANYDPVYPYDAPGSSTQPPFFNNKQGLTESP 40

PGTLAVNVSPPLTFSTLGAIKLSTGPGTLTNEGKQLQASLG 80

PGLITNTEGQITVENVNKVLSTFSPHLHKNTVSLALGDG 120

LEDENGTLKVTFTPTPPPLQFSPPLTKTGGTVSLPLQDSM 160

QVTNGKLGVKPTTYAPPLKKTDQQVSLQVGSGLTVINEQL 200

210 220 230 240

QAVQPPATTYNEPLSKTDNSVSLQVGAGLAVQSGALVATP 240

PPPLTFTSPLEKNNTVSLQVGAGLSVQNNALVATPPPPL 280

TFAYPLVKNDNHVALSAGSGLRISGGSLTVATGPGLSHQN 320

GTIGAVVGAGLKFENNAILAKLGNGLTIRDGAIEATOPPA 360

APITLWTGPGPSINGFINDTPVIRCFICLTRDSNLVTVNA 400

410 420 430 440

SFVGEGGYRIVSPTQSQFSLIMEFDQFGQLMSTGNINSTT 440

TWGEKPWGNNTVQPRPSHTWKLCMPNREVYSTPAATISRC 480

GLDSIAVDGAPSRSIDCMLIINKPKG VATYTLTFRFLNFN 520

RLSGGTLFKTDVLTFTYVGENQ 542

FIGURE 16

	M	K	R	S	R	X	X	X	P	X	P	X	D	P	X	X	L	Y	P	X	P	X	X	X	P	Q	X	D	X	F	Majority
	10										20										30										
1	M	S	V	S	S	C	S	C	P	S	A	P	T	I	F	M	L	L	Q	M	K	R	A	R	P	S	E	D	T	F	HAd5F.PRO
1	M	K	R	S	V	P	Q	D	F	N	L	V	Y	P	Y	K	A	K	R	P	N	I	M	P	P	F	F	D	R	N	BAV3F.pro
1	M	G	P	K	K	Q	K	R	E	L	P	E	D	F	D	P	V	Y	P	Y	D	V	P	Q	L	Q	I	N	P	P	PAV3F.pro
1	M	K	R	T	R	R	A	L	P	A	N	Y	D	P	V	Y	P	Y	D	A	P	G	S	S	T	Q	P	P	F	F	CAV2F.pro
1	M	K	R	A	R	W	D	P	V	Y	P	F	S	E	E	R	L	V	P	L	P	P	F	I	E	A	G	K	G	L	OAd287.PRO
	N	X	V	G	X	X	X	X	X	X	X	X	V	X	X	X	L	T	P	P	F	L	X	X	X	L	G	X	X	Majority	
	40										50										60										
31	N	P	V	Y	P	Y	D	T	E	T	G	P	P	T	V	P	F	L	T	P	P	F	V	S	P	N	G	F	Q	E	HAd5F.PRO
31	G	F	V	E	N	Q	E	A	T	L	A	M	L	V	E	K	P	L	T	F	D	K	E	G	A	L	T	L	G	V	BAV3F.pro
31	F	V	S	G	D	G	F	N	Q	S	V	D	G	V	L	S	L	H	I	A	P	P	L	V	F	D	N	T	R	A	PAV3F.pro
31	N	N	K	Q	G	L	T	E	S	P	P	G	T	L	A	V	N	V	S	P	P	L	T	F	S	T	L	G	A	I	CAV2F.pro
31	K	S	E	G	L	I	L	S	L	N	F	T	D	P	I	T	I	N	Q	T	G	F	L	T	V	K	L	G	D	G	OAd287.PRO
31	X	X	X	X	G	X	G	G	L	L	L	E	G	K	X	X	X	V	X	X	X	G	L	X	L	T	T	X	L	X	Majority
	70										80										90										
61	S	P	P	G	V	L	S	L	R	L	S	E	P	L	V	T	S	N	G	M	L	A	L	K	M	G	N	G	L	S	HAd5F.PRO
61	G	R	G	I	R	I	N	P	A	G	L	L	E	T	N	D	L	A	S	A	V	F	P	P	L	A	S	D	E	A	BAV3F.pro
61	L	T	L	A	F	G	G	L	Q	L	S	G	K	Q	L	V	V	A	T	E	G	S	G	L	T	T	N	P	D	PAV3F.pro	
61	K	L	S	T	G	P	G	L	T	L	N	E	G	K	L	Q	A	S	L	G	P	G	L	I	T	N	T	E	G	Q	CAV2F.pro
61	I	F	I	N	G	E	G	L	S	S	T	A	P	K	V	K	V	P	L	T	V	S	D	E	T	L	Q	L	L	OAd287.PRO	
	G	X	V	X	L	N	X	K	S	X	S	X	T	T	X	X	P	X	L	X	K	T	G	S	G	L	S	L	D	X	Majority
	100										110										120										
91	L	D	E	A	G	N	L	T	S	Q	N	V	T	T	V	S	P	P	L	K	K	T	K	S	N	I	N	L	E	I	HAd5F.PRO
91	G	N	V	T	L	N	M	S	D	G	L	Y	T	K	D	N	K	L	A	V	K	V	G	P	G	L	S	L	D	S	BAV3F.pro
91	G	K	L	V	L	K	V	K	S	P	I	T	L	T	A	E	G	I	S	L	S	L	G	P	G	L	S	N	S	E	PAV3F.pro
91	I	T	V	E	N	V	N	K	V	L	S	F	T	S	P	L	H	K	N	E	N	T	V	S	L	A	L	G	D	G	CAV2F.pro
91	L	S	N	S	L	T	T	E	S	D	S	L	A	L	K	Q	P	Q	L	P	L	K	I	N	D	E	G	S	L	V	OAd287.PRO
	L	N	L	L	T	V	T	T	X	X	L	X	X	X	X	X	A	P	L	X	P	L	X	X	A	L	X	S	T	T	Majority
	130										140										150										
121	S	A	P	L	T	V	T	S	E	A	L	T	V	A	A	A	A	P	L	M	V	A	G	N	T	L	T	M	Q	S	HAd5F.PRO
121	N	N	A	L	Q	V	H	T	G	D	G	L	T	V	T	D	D	K	V	S	L	N	T	Q	A	P	L	S	T	T	BAV3F.pro
121	T	G	L	S	L	Q	V	T	A	P	L	Q	F	Q	G	N	A	L	T	L	P	L	A	A	G	L	Q	N	T	D	PAV3F.pro
121	L	E	D	E	N	G	T	L	K	V	T	F	P	T	P	P	P	P	L	Q	F	S	P	P	L	T	K	T	G	G	CAV2F.pro
121	L	N	L	N	T	P	L	N	L	Q	N	E	R	L	S	L	N	V	S	N	P	L	K	I	A	A	D	S	L	T	OAd287.PRO

FIGURE 17A

	X A X L X L L G S X L X T L G X X X V T V X N G X P X L Q X																										Majority				
	160													170										180							
151	Q	A	P	L	T	V	H	D	S	K	L	S	I	A	T	Q	G	P	L	T	V	S	E	G	K	L	A	L	Q	T	HAd5F.PRO
151	S	A	G	L	S	L	L	L	G	P	S	L	H	L	G	E	E	E	R	L	T	V	N	T	G	A	G	L	Q	I	BAV3F.pro
151	G	G	M	G	V	K	L	G	S	G	L	T	T	D	N	S	Q	A	V	T	V	Q	V	G	N	G	L	Q	L	N	PAV3F.pro
151	T	V	S	L	P	L	Q	D	S	M	Q	V	T	N	G	K	L	G	V	K	P	T	T	Y	A	P	P	L	K	K	CAV2F.pro
151	I	N	L	K	E	P	L	G	L	Q	N	E	S	L	G	L	N	L	S	D	P	M	N	I	T	P	E	G	N	L	OAd287.PRO
	G X X L L T V X V G S G L T V A S X X L X A A X X S N G X X																										Majority				
	190													200										210							
181	S	G	P	L	T	T	T	D	S	S	T	L	T	I	T	A	S	P	P	L	T	T	A	T	G	S	L	G	I	D	HAd5F.PRO
181	S	N	N	A	L	A	V	K	V	G	S	G	I	T	V	D	A	Q	N	Q	L	A	A	S	L	G	D	G	L	E	BAV3F.pro
181	G	E	G	Q	L	T	V	P	A	T	A	P	L	V	S	G	S	A	G	I	S	F	N	Y	S	S	N	D	F	V	PAV3F.pro
181	T	D	Q	Q	V	S	L	Q	V	G	S	G	L	T	V	I	N	E	Q	L	Q	A	V	Q	P	P	A	T	T	Y	CAV2F.pro
181	G	I	K	L	K	N	P	M	K	V	E	E	S	S	L	A	L	N	Y	K	N	P	L	A	I	S	N	D	A	L	OAd287.PRO
	L X N X S X T L N X K X G L V X G X L A S T X D T L S X L X																										Majority				
	220													230										240							
211	L	K	E	P	I	Y	T	Q	N	G	K	L	G	L	K	Y	G	A	P	L	H	V	T	D	D	L	N	T	L	T	HAd5F.PRO
211	S	R	D	N	K	T	V	V	K	A	G	P	G	L	T	I	T	N	Q	A	L	T	V	A	T	G	N	G	L	Q	BAV3F.pro
211	L	D	N	D	S	L	S	L	R	P	K	A	I	S	V	T	P	P	L	Q	S	T	E	D	T	I	S	L	N	Y	PAV3F.pro
211	N	E	P	L	S	K	T	D	N	S	V	S	L	Q	V	G	A	G	L	A	V	Q	S	G	A	L	V	A	T	P	CAV2F.pro
211	S	I	N	I	A	N	P	L	T	V	N	T	S	G	S	L	G	I	S	Y	S	T	P	L	R	I	S	N	N	A	OAd287.PRO
	V N P F X G X X L N L T X X Q T L X X X X L X X L V X X N N																										Majority				
	250													260										270							
241	V	A	T	G	P	G	V	T	I	N	N	T	S	L	Q	T	K	V	T	G	A	L	G	F	D	S	Q	G	N	M	HAd5F.PRO
241	V	N	P	E	G	Q	L	Q	L	N	I	T	A	G	Q	G	L	N	F	A	N	N	S	L	A	V	E	L	G	S	BAV3F.pro
241	S	N	D	F	S	V	D	N	G	A	L	T	L	A	P	T	F	K	P	Y	T	L	W	T	G	A	S	P	T	A	PAV3F.pro
241	P	P	P	L	T	F	T	S	P	L	E	K	N	E	N	T	V	S	L	Q	V	G	A	G	L	S	V	Q	N	N	CAV2F.pro
241	L	S	L	F	I	G	K	P	L	G	L	G	T	D	G	S	L	T	V	N	L	T	R	P	L	V	C	R	Q	N	OAd287.PRO
	X L X X T P G X P L V S L Y P L L X L D V X X P L X A S X A																										Majority				
	280													290										300							
271	Q	L	N	V	A	G	G	L	R	I	D	S	Q	N	R	R	L	I	L	D	V	S	Y	P	F	D	A	Q	N	Q	HAd5F.PRO
271	G	L	H	F	P	P	G	Q	N	Q	V	S	L	Y	P	G	D	G	I	D	I	R	D	N	R	V	T	V	P	A	BAV3F.pro
271	N	V	I	L	T	N	T	T	T	P	N	G	T	F	F	L	C	L	T	R	V	G	G	L	V	L	G	S	F	A	PAV3F.pro
271	A	L	V	A	T	P	P	P	P	L	T	F	A	Y	P	L	V	K	N	D	N	H	V	A	L	S	A	G	S	G	CAV2F.pro
271	T	L	A	I	N	Y	S	A	P	L	V	S	L	Q	D	N	L	T	L	S	Y	A	Q	P	L	T	V	S	D	N	OAd287.PRO

FIGURE 17B

	L	X	X	L	X	G	L	X	P	L	X	T	N	S	X	G	X	L	D	X	N	Y	S	X	X	L	V	L	T	X	Majority
	310										320										330										
301	L	N	L	R	L	G	Q	G	P	L	F	I	N	S	A	H	N	L	D	I	N	Y	N	K	G	L	Y	L	F	T	HAd5F.PRO
301	G	P	G	L	R	M	L	N	H	Q	L	A	V	A	S	G	D	G	L	E	V	H	S	D	T	L	R	L	K	L	BAV3F.pro
301	L	K	S	S	I	D	L	T	S	M	T	K	K	V	N	F	I	F	D	G	A	G	R	L	Q	S	D	S	T	Y	PAV3F.pro
301	L	R	I	S	G	G	S	L	T	V	A	T	G	P	G	L	S	H	Q	N	G	T	I	G	A	V	V	G	A	G	CAV2F.pro
301	S	L	R	L	S	L	N	S	P	L	N	T	N	S	D	G	K	L	S	V	N	Y	S	N	P	L	V	V	T	D	OAd287.PRO
	340										350										360										
	S	X	X	X	X	F	X	X	X	A	V	L	I	N	X	T	G	X	X	D	X	A	X	X	A	X	I	X	X	X	Majority
	340										350										360										
331	A	S	N	N	S	K	K	L	E	V	N	L	S	T	A	K	G	L	M	F	D	A	T	A	I	A	I	N	A	G	HAd5F.PRO
331	S	H	G	L	T	F	E	N	G	A	V	R	A	K	L	G	P	G	L	G	T	D	D	S	G	R	S	V	V	R	BAV3F.pro
331	K	G	R	F	G	F	R	S	N	D	S	V	I	E	P	T	A	A	G	L	S	P	A	W	L	M	P	S	T	F	PAV3F.pro
331	L	K	F	E	N	N	A	I	L	A	K	L	G	N	G	L	T	I	R	D	G	A	I	E	A	T	Q	P	P	A	CAV2F.pro
331	S	N	L	T	L	S	V	K	K	P	V	M	I	N	N	T	G	N	V	D	L	S	F	T	A	P	I	K	L	N	OAd287.PRO
	370										380										390										
	D	G	X	X	L	T	S	G	N	G	P	X	X	N	V	X	I	N	X	T	X	V	G	L	D	F	X	L	T	T	Majority
	370										380										390										
361	D	G	L	E	F	G	S	P	N	A	P	N	T	N	P	L	K	T	K	I	G	H	G	L	E	F	D	S	N	K	HAd5F.PRO
361	T	G	R	G	L	R	V	A	N	G	Q	V	Q	I	F	S	G	R	G	T	A	I	G	T	D	S	S	L	T	L	BAV3F.pro
361	I	Y	P	R	N	T	S	G	S	S	L	T	S	F	V	Y	I	N	Q	T	Y	V	H	V	D	I	K	V	N	T	PAV3F.pro
361	A	P	I	T	L	W	T	G	P	G	P	S	I	N	G	F	I	N	D	T	P	V	I	R	C	F	I	C	L	T	CAV2F.pro
361	D	A	E	Q	L	T	L	E	T	T	E	P	L	E	V	A	D	N	A	L	K	L	K	L	G	K	G	L	T	V	OAd287.PRO
	400										410										420										
	X	X	X	A	L	L	X	X	X	G	S	F	L	T	X	G	X	X	X	G	S	K	T	N	S	S	L	X	L	Majority	
	400										410										420										
391	A	M	V	P	K	L	G	T	G	L	S	F	D	S	T	G	A	I	T	V	G	N	K	N	N	D	K	L	T	L	HAd5F.PRO
391	N	I	R	A	P	L	Q	F	S	G	P	A	L	T	A	S	L	Q	G	S	G	P	I	T	Y	N	S	N	N	G	BAV3F.pro
391	L	S	T	N	G	Y	S	L	E	F	N	F	Q	N	M	S	F	S	A	P	F	S	T	S	Y	G	T	F	C	Y	PAV3F.pro
391	R	D	S	N	L	V	T	V	N	A	S	F	V	G	E	G	Y	R	I	V	S	P	T	Q	S	Q	F	S	L	CAV2F.pro	
391	S	N	N	A	L	T	L	N	L	G	N	G	L	T	F	Q	Q	G	L	L	Q	I	K	T	N	S	S	L	G	F	OAd287.PRO
	430										440										450										
	X	X	X	X	X	X	S	P	X	X	X	X	X	N	X	X	X	X	L	T	L	X	X	L	X	F	G	X	N	Majority	
	430										440										450										
421	W	T	T	P	A	P	S	P	N	C	R	L	N	A	E	K	D	A	K	L	T	L	V	L	T	K	C	G	S	Q	HAd5F.PRO
421	T	F	G	L	S	I	G	P	G	M	W	V	D	Q	N	R	L	Q	V	N	P	G	A	G	L	V	F	Q	G	N	BAV3F.pro
421	V	P	R	R	T	T	H	R	P	R	H	G	P	F	S	L	R	E	R	R	H	L	F	Q	L	L	Q	Q			PAV3F.pro
421	I	M	E	F	D	Q	F	G	Q	L	M	S	T	G	N	I	N	S	T	T	T	W	G	E	K	P	W	G	N	N	CAV2F.pro
421	N	A	S	G	E	L	S	T	A	T	K	Q	G	T	I	T	V	N	F	L	S	T	T	P	I	A	F	G	W	Q	OAd287.PRO

FIGURE 17C

	I L X T X X A X X X K L S X X X I S X X S X P A X L I X R X	Majority
	460 470 480	
451	I L A T V S V L A V K G S L A P I S G T V Q S A H L I I R F	HAd5F.PRO
451	N L V P N L A D P L A I S D S K I S L S L G P G L T Q A S N	BAV3F.pro
448		PAV3F.pro
451	T V Q P R P S H T W K L C M P N R E V Y S T P A A T I S R C	CAV2F.pro
451	I I P T T V A F I Y I L S G T Q F T P Q S P V T S L G F Q P	OAd287.PRO
	X L D X X L X N G L X X X X X X V X X I X G X X X X V X X Y	Majority
	490 500 510	
481	D E N G V L L N N S F L D P E Y W N F R N G D L T E G T A Y	HAd5F.PRO
481	A L T L S L G N G L E F S N Q A V A I K A G R G L R F E S S	BAV3F.pro
448		PAV3F.pro
481	G L D S I A V D G A P S R S I D C M L I I N K P K G V A T Y	CAV2F.pro
481	P Q D F L D F F V L S P F V T S V T Q I V G N D V K V I G L	OAd287.PRO
	T X A X X F S X X X X X X X X X L X K T X X X N X X X X X E	Majority
	520 530 540	
511	T N A V G F M P N L S A Y P K S H G K T A K S N I V S Q V Y	HAd5F.PRO
511	S Q A L E S S L T V G N G L T L T D T V I R P N L G D G L E	BAV3F.pro
448		PAV3F.pro
511	T L T F R F L N F N R L S G G T L F K T D V L T F T Y V G E	CAV2F.pro
511	T I S K N Q S T I T M K F T S P L A E N V P V S M F T A H Q	OAd287.PRO
	X R - - - - -	Majority
	550 560 570	
541	L N G D K T K P V T L T I T L N G T Q E T G D T T P S A Y S	HAd5F.PRO
541	V R D N K I I V K L G A N L R F E N G A V T A G T V N P S A	BAV3F.pro
448		PAV3F.pro
541	N Q	CAV2F.pro
541	F R Q .	OAd287.PRO
	- - - - -	Majority
	580 590 600	
571	M S F S W D W S G H N Y I N E I F A T S S Y T F S Y I A Q E	HAd5F.PRO
571	P E A P P T L T A E P P L R A S N S H L Q L S L S E G L V V	BAV3F.pro
448		PAV3F.pro
542		CAV2F.pro
544		OAd287.PRO

FIGURE 17 D

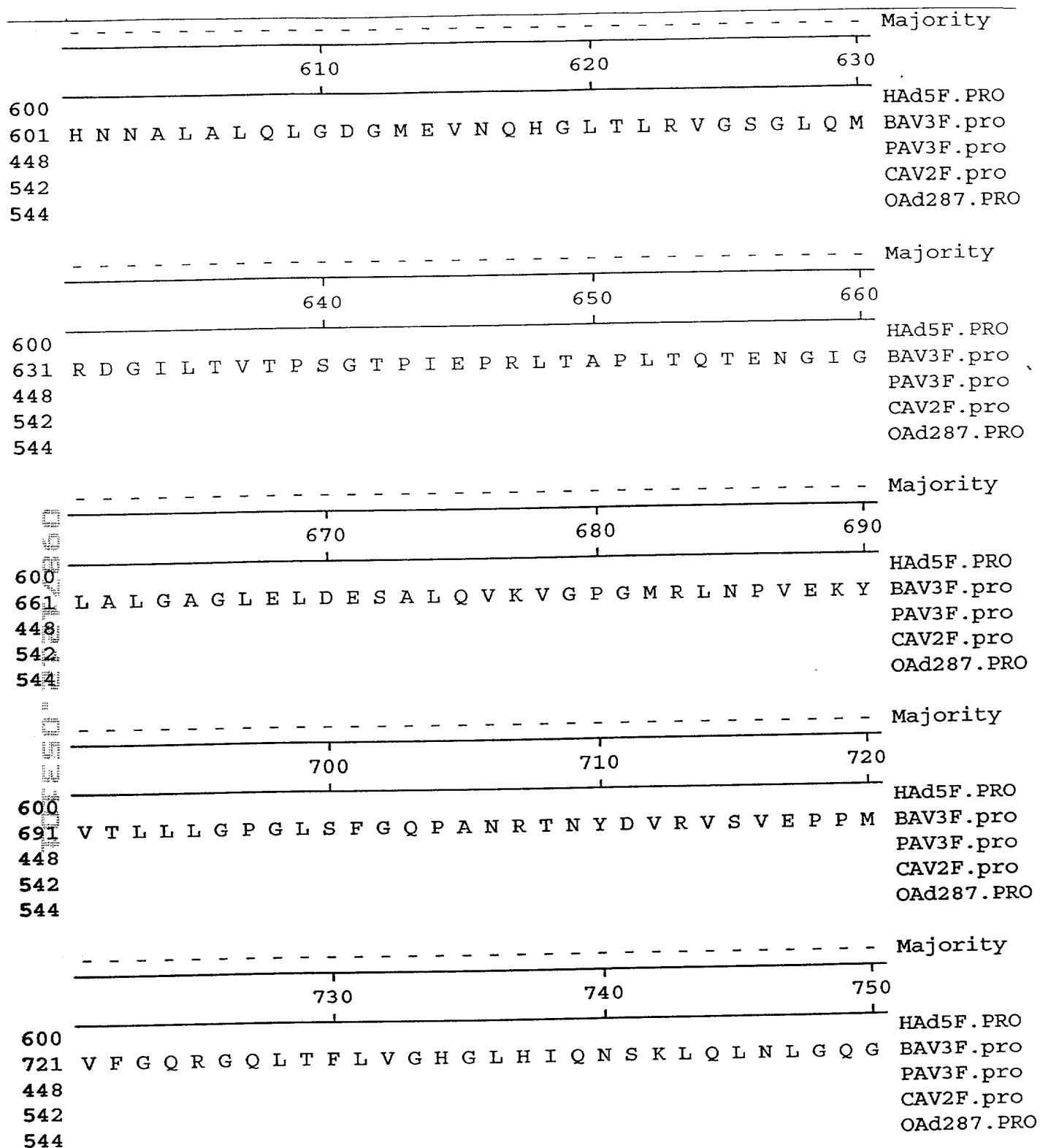


FIGURE 17E

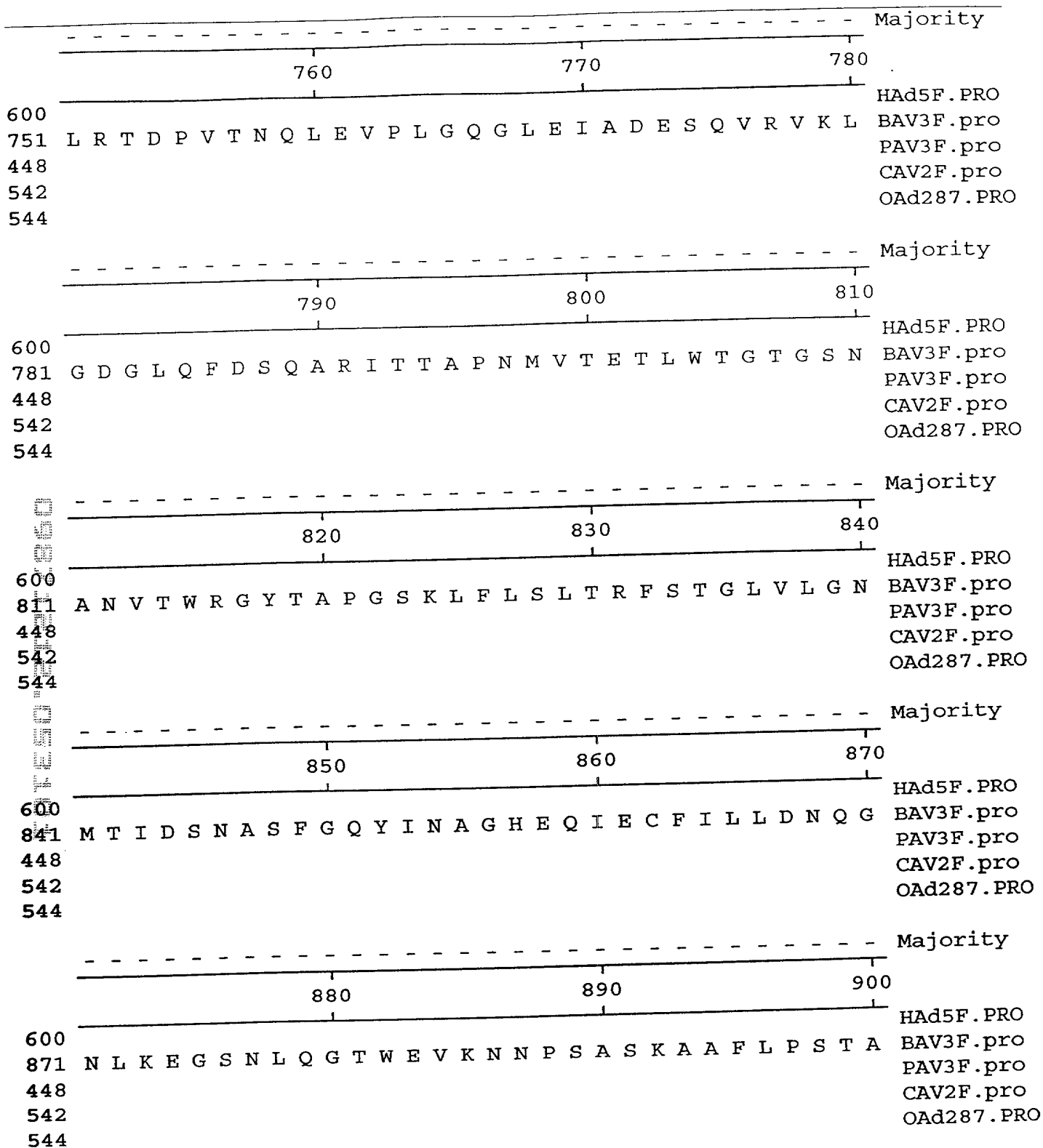


FIGURE 17F

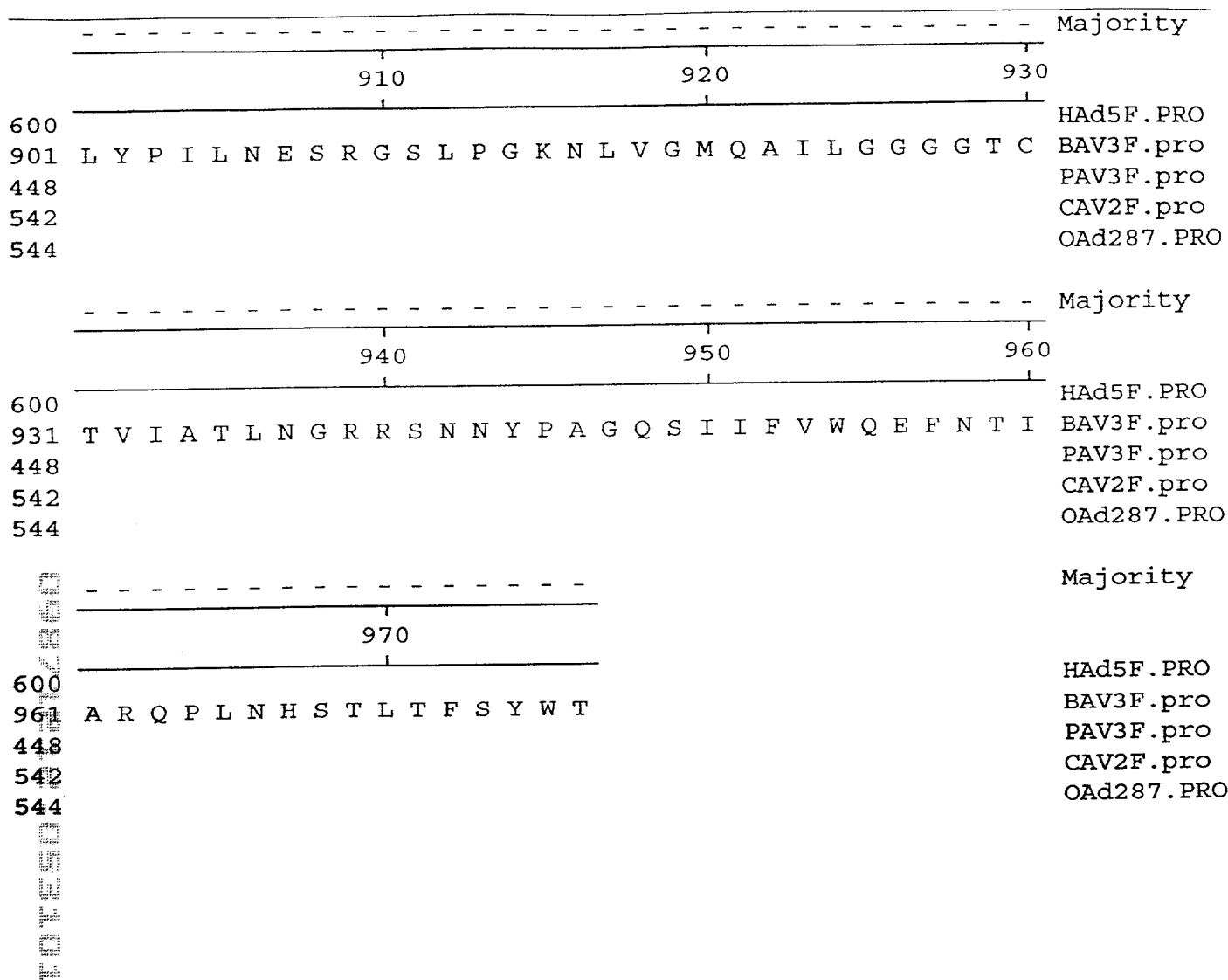


FIGURE 17G